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COMMERCIAL RAILWAY GAZETT

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1341.—Vol. XXXI.

LONDON, SATURDAY, MAY 4, 1861.

STAMPED.....SIXPENCE. UNSTAMPED..FIVEPENCE.

MR. JAMES CROFTS, SHAREBROKER, No. 1, FINCH LANE, CORNHILL. (Established 17 years.) MR. JAMES LANE, NO. 44, THREADNEEDLE STREET, LONDON, E.C.

JAMES LANE HAS FOR SALE, at nett prices:—20 Airred Consols, £3½; 25 Arthur, 7s. 63.; 20 Beneathwood, 8s. 6d.; 10 Buller and Basset, 11s.; 10 Crowiwm, 9s. 6d.; 20 East Devon, 32s. 6d.; 10 Gomamens, £2½; 20 Gomains Lake (Clitters), 55s.; 20 Great Moelwyn; 15 Great Wheal Martha, 16s. 6d.; 20 Molland, 1s. 9d.; 25 Great Airred; 10 Hingston Down, £2½; 20 Ketly Bray, 24s.; 25 Great Retallack, 25s. 6d.; 20 Lady Bertha, 30s.; 20 New Wheal Frances, 11s.; 2 North Roskear; 80 North Hallenbeagle, 32s. 6d.; 20 New Teleigh, 47s.; 50 North Minera, 33s. 6d.; 5 North Phomix, £5; 1 Providence, £43; 20 Redmoor, 4s.; 60 Sortridge, 10s.; 20 Trumpet United, 14s.; 20 West Wendron, £8s. 6d.; 5 Wheal Hearle, £9; 5 Wheal Anne, £3½; and 3 West Rose Down, £13. 7

PETER WATSON, ENGLISH AND FOREIGN STOCK, SHARE, AND MINING OFFICES.

Telegraphic messages to Buy or Sell Mine Shares punctually attended to.

MR. PETER WATSON is instructed to PURCHASE and SELL the UNDERMENTIONED MINE SHARES, subject to a charge of 2 per cent., for immediate delivery and cash payment:—

	DIV	IDI	EN.	D MINES.			- 1
No. of PURCHASER.				No. of SELLER.			- 1
shares. Mines.	P	rice.		shares. Mines.	Pr	ice.	
15 Alfred Consols£	2	0	0	8 Aifred Consols£	2	10	01
1 East Basset	98	0	0	2 East Basset	99	15	0
1 Devon Great Consols		-		100 Kelly Bray	1	2	9
10 Ding Dong	9	0	0	10 Par Consols	9	10	0
15 East Caradon	19	2	6	2 Providence	42	10	0
1 Trelawny	13	0	0	10 Ludcott	3	17	6
5 Mary Ann	13	10	0	20 Tamar	2	1	3
20 Ludoott	3	15	0	10 Tincroft	5	15	0
8 Providence	39	10	0	10 Grylis	3	15	0
13 Wheal Margaret	52	0	0	3 Rosewarne	25	0	0
4 Herodsfoot	37	0	0		137	0	0
1 Carn Brea	87	10	0	1 Grambler	19	0	0
6 North Basset	3	10	0	20 Edward	2	5	0
1 West Seton		-		1 West Caradon	70	0	0
1 Wheal Seton	70	0	0	1 North Roskear	19	2	6
50 Kelly Bray	1	1	6	1 United Mines	45	0	0
** ****				2 Ding Dong	10	10	0
PI	enc	RE	281	VE MINES.			-
No. of PURCHASER,			3634	No. of SELLER.			
shares, Mines.	P	rice.		shares. Mines.	Pr	rice.	
	6 2		6	100 East Grenville			0
75 East Russell	6	5	0	20 East Russell		12	6
200 Budnick Consols	1	2	6	96 Budnick Consols	ĭ	6	0
60 Wheal Unity	0		0		23	0	0
5 Cargoll	16		0		0		6
20 Great Alfred	0		0	3 Stray Park	36		3
4 West Frances	17		0	28 North Downs	A	ô	0

4 West Frances 17 10 0 23 North Downs 20 South Condurrow 0 13 0 75 Gurlyn 20 South Condurrow 0 10 0 20 Rosewall Hill 20 Sortridge Consols — 5 West Stray Park 10 Graville 2 15 0 5 Camborne Vean 1 West Sharp Tor 33 15 0 100 Lady Bertha 50 New Frances 0 10 0 10 0 10 Trencom 20 North Minera 1 9 0 50 Pedn-an-drea 20 Rosewall Hill 1 15 0 4 Herward . 50 Lady Bertha 1 10 30 North Minera 1 9 0 50 Fedn-an-drea 10 Garlidoa 5 10 0 20 Treweatha 10 Garlidoa 5 10 0 20 Treweatha 10 Garlidoa 5 10 0 20 Treweatha 100 Wheal Arthur 0 5 6 5 Garlidoa 5 10 0 20 Great Baddern 10 Nanteos 20 Great Baddern 10 Nanteos 20 Great Baddern 10 Bankers: Union Bank of London NOTICE.—FOR SALE, some SHARES in a FEW CHOICE MINES, highly recommended. Particulars to be had (either personally or by letter) of Mr. Lelean, 4, Cushion-court, Old Broad-street, London, E.C.

FOR SALE: -50 West Providence, 30s.; 100 West South Caradon 15s.; 30 Dolcoath United, £1½.—Apply to Mr. Lelean, 4, Cushion-court, Old Broad-street, E.C.

M. T. R. OSEWARNE, 81, OLD BROAD STREET,

100 Gawton United, 5a, 3d,
30 Crelake, 23½,
20 Bryn Gwiog, £36.
30 Drake Walls, 18a.
100 Merlyn, 8a, 3d.
10 Devon Gt. Con., £32½,
30 Sorth Downs, £4½,
30 Sorth Treisway, 5a, 6d.
100 East Russell, £6½,
100 East Grandon, £19½,
100 Korth Treisway, 5a, 6d.
100 East Russell, £6½,
100 Korth Treisway, 5a, 6d.
100 Korth Treisway, Mr. T. Roswark has SPECIAL BUSINESS in—
Bodford Consols.
Birch Tor and Vitifer.
[Ay 3, 1861.] East Caradon.
Bankers: Bank of London. Birch Tor and Vitifer. May 3, 1861.

MR. JAMES HUME, SHAREBROKER, 74, OLD BROAD The "Mining Share Monitor" for April now ready. The most reliable and valuable information on East Caradon, East Cara Brea, Cuddra, and the leading mines of the day, Free for six postage stamps.

M. R. E. GOMPERS, THERADNEEDLE STREET, LONDON, E.C.
BUSINESS TRANSACTED in BRITISH and FOREIGN STOCKS and SHARES.
Mr. GOMPERS, having returned from Cornwall and Devon, can now advise his friends and the public, so far as his own judgment and the opinions of several of the leading men in the counties enable him, as to the best investment at present prices. The shows signs of recovering from the recent depression, and he, therefore, recommends the following for immediate purchase:—Providence, Theroft, Carn Bres, and Wheal Margaret; dividends are being paid on these shares. Amongst the progressive mines, shares in Hingston Down, North Robert, Sortridge, Kelly Bray, and Calstock Consols ought to be bought. The Cardon district has attracted considerable attention, and yielded a good profit to those who took my advice in purchasing East Caradon when at a low figure. Wheal Norts, a young mine in the same district, will shortly come into notice.
Mr. GOMPERS is a BUYER of 5 Providence, at £40; 20 Hingston Down, at £2%; 100 Wheal Norts; 50 Ticorft; 2 Wheal Margaret; 50 Kelly Bray; 50 or 100 North Wheal Robert; 50 or 100 Fowey and Par, at 10s.; 50 Gawton; 100 Calstock Consols, And is a SELLER of 20 Lady Bratha, £1%; 1 Clifford, £185; 50 East Grenville, £3; 1 Devon Great Consols, £340.

Terms, 1% per cent.—Bankers: London and Westminster Bank.

M. R. GEORGE BJDGE, 4, ROYAL EXCHANGE-BUILDINGS, LONDON, has FOR SALE at the following prices, nett:—2 East Basset £98%; 3 West Sharp Tor; 50 Nant-y-lago, 31s. 9d.; 5 South Bryn Gwiog; 50 Wheal-Trevalyan, 8s. 6d.; 2 South Wheal Frances, £137½; 50 Great Retailack, 27s. 3d.; 3 West Caradon, £70; 5 North Treakerby, £24; 50 East Grenville; 25 Crelack, £32; 100 Tamar Consols, 38s. 9d.; 50 Treweatha, 10s.; 50 West Wendron, 11s. 3d.; 30 Ceft Cilcen, 7s. 9d.; 3 Old Tolgus; 60 North Minera; 3 Herodesiod, £37½; 58 Billins, £20; 50 South Condurrow, 14s. 3d.; 3 Bryn Gwiog; 50 Wheal Unity, 15s.; 25 Buller and Bertha; 10 East Caradon £19½; 40 Angarrack, 3s.; 5 Silver Rake, £19½; 50 Great Wheal Martha; 7 Caradon Consols, £10; 50 Lady Bertha, 29s.; 25 Crane; 2 West Seton, £350; 100 East Rosewarne; 10 Bedford United, £5½; 50 Charlotte United; 66 Great Wheal Alfred, 13s.; 30 Buller and Basset; 50 Pedn-an-drea, £1; 30 Tolcare, £4 15s.; 15 West Trevelyun; 35 Wheal Grenville, £25½; 3 Stray Park, £37; 3 West Bryn Gwiog, £36½; 3 Grambler, £18½; 50 Trumpet United, 13s. 6d.; 20 Emily Henrietta, £3½; 50 Wheal Harriett; 50 Wheal Arthur, 5s. 6d.; 3 Providence; 5 Wheal Hearie; 50 New Wheal Frances, 8s. 6d.; 25 Great South Tolgus, £5½.

FIFTEEN to TWENTY, and even TWENTY-FIVE PER CENT. PER ANNUM upon current value of shares, in CORNISH TIN and COPPER MINES. Dividends payable two-monthly or quarterly.

Dividends payable two-monthly or quarterly.

MESSRS. TREDINNICK AND CO., MINING ENGINEERS, SEND their SELECTED LIST OF SOUND PROGRESSIVE AND DIVIDEND SHARES upon the receipt of a Fee of One Gainea.

Review of Cornish and Devon Mining Enterprise, 5e. per copy.

Maps per post of the Buller and Basset, Great Vor, Alfred Consols, the Providence and Margaret Districts, 2s. 6d. each.

Cornish Mines, well selected, pay better than any other description of securities, are freer from risks, and entail less responsibilities than banks and other joint-stock companies. Shares bought and sold on commission of 2½ per cent.

Money advanced at 10 per cent. annually, for short or long periods, upon approved Mining Shares,—76, Lombard-street, London, E. C

G E O R G E M O O R E E, I CROWN GOURT, THREADNEEDLE STREET.

In any business that Guonor Moore is favoured with, in which he is the bdyer, he will give CASH ON RECEIPT OF TRANSFER.

| In any business that George Moore is favoured with, in which he is the bdyer, he will give CASH ON RECEIFT OF TRANSFER.

| JAMES HERRON has FOR SALE the following SHARES, at the price quoted, and FREE OF COMMISSION:—
| James HERRON has FOR SALE the following SHARES, at the price quoted, and FREE OF COMMISSION:—
| James Herron Hill, 19. 20. 41 Bryn Gwiog, £37%.
| James Herron Hall, £20. 2 Mary Ann. £12 10s. 2 South Frances, £13% 10 South Goriand (last can plad).
| James Herron Hill, 19. 94. 20 Merilyn, 10s. 20

MESSRS. VIVIAN AND REYNOLDS, 68, OLD BROAD STREET, LONDON, E.C., MINING ENGINERS, INSPECTORS OF MINES, COMMISSION, and GENERAL AGENTS for the PURCHASE OF SALE OF MINE SHARES, RAILWAY, and EVERY OTHER DESCRIPTION OF STOCK.

Commission on share transactions, 1% per cent. on £100 and above, and 2% per cent. for less sums.

M. R. C. POWELL, MINE SHAREBROKER,
2, SPREAD EAGLE COURT, FINCH LANE, LONDON, E.C.
C. POWELL Informs his friends and the public that the situation of his office (adjoining the Mining Exchange) enables him to act promptly on all orders confided to him, either by post or telegraph; and begs to assure those who may favour him with business on commission, or at nett prices, that his best endeavours shall be used for their interest.
Office hours: 10 till 5. Commission, 1½ per cent.

hay 3, 1861.

EDWARD COOKE, 5, HERCULES PASSAGE, THREADNEEDLE STREET, LONDON, E.C., begs especially to direct the attention of
the mining public to Wheal Moyle. No mine in the list contains better chances of becoming a permanent dividend property than this one. The fullest investigation as to
its merits is solicited, and every facility will be afforded to parties wishing to have the
mine inspected. A map, showing its relative position to the richest mines that Cornwall
has ever produced, sent free on receipt of six postage-stamps.

tla merita la solicited, and every facility will be afforded to parties wishing to have it mine inspected. A map, showing its relative position to the richest mines that Cornwa has ever produced, sent free on receipt of six postage-stamps.

EDWARD COOKE la S BUYER OR SELLER OF Wheal Moyle shares at the market price All kinds of shares bought and sold on commission.

FOR SALE, at nett prices:—

25 Buller and Basset, 9s. 1 South Frances, £135. 13 Wheal Moyle, £23%.

25 North Minner(paid-aup), 35 Wheal Arthur, 7s. 10 Vest Fower, £55. 10 Wheal Buller, £110.

25 East Budnick, 9s. 10 Wheal Merely and 7s. 60 Gurlyn, 5s. 20 Wheal Unity, 16s. 2 So. Bryn Gwlog, £14.

28 So. Bryn Gwlog, £14.

29 Bryn Gwlog, £20. 7 Bryn Gwlog, £20. 7 Bryn Gwlog, £38%. 135. 13 Wheal Moyle, £2%.
10 West Fowey, £5,
10 West Fowey, £5,
124, 1 Wheal Buller, £110,
15 Rose. & Herland, 7s. 6d.
100 Wheal Trevelyan, 5s.
250, 2 Bryn Gwicg, £33½.

May 3, 1861. Bankers: London and Westminster,

OHN WM. HUTCHINSON has the following FOR SALE, at
nett prices, and prompt delivery:—
1 South Frances, £137%.

5 Kitty (Lelant), £12.
5 Trelawny, £14%.
5 Wheal Hearle, £9%.
1 Providence, £42%.

MR. R. H. M. JACKMAN, MINING AND SHAREBROKER,
No. 2, ADAM'S COURT, OLD BROAD STREET, E.C.,
OFFERS FOR SALE, free of any commission:

1 W. Bryn Gwiog, £364.
2 North Roskear, £19.
50 Beneathwood, 11s.
1 Herward United, £17.
4 Stray Park, £36.
4 Stray Park, £36.
100 So. Condurrow, 14s 6d.
R. H. M. JACKMAN is a BUYEE of—
2 East Basset, £57½.

May 3, 1861.

Bankers: London and Westminster.

R. J. S. PHILLIPS, C.E., MINING ENGINEER SHAREBROKER, &c. (from Cornwall), has the following SHARES TO SELI IVI SHAREBROKER, &c. (from Cornwall), has see a see a new prices:—

10 Bryntail, £4. 15 Pendeen, £5½. 20 Drake Walls, 17s. 6d. 10 Crelake, £3½. 49 Yarner, £2. 20 Drake Walls, 17s. 6d. 12 Ludcott, £3½. 10 West Providence, 35s. 15 Pedn-an-drea, 14s. 6d. J. S. Pillillirs, from extensive mining connections, will advise capitalists of the shares best calculated to advance in market value during the next six months, either for a present fiee, or a small share of the profits, arising from the difference of purchase and sale thereof. Buy immediately, and ascure the general rise.

Reports on the mines of each district, from the best local authorities.

Valuations, estimates, specifications, and drawings for mining and other machinery executed.—12, 8t. Michael's-ailey, Cornbill, London, Ed.

MR JOSEPH GREGORY, MINING OFFICES, INESS TRANSACTED in BRITISH and FOREIGN STOCKS and SHA Terms, 1½ per cent. on £100 and above, 2½ per cent. on smaller sums. Bankers: City Bank, Threadneedle-street. BUSINESS T

MESSRS, R. HORLEY AND CO., SWORN STOCK, SHARE, and mining brokers, 45, continue to Transact Every Description of Mining Business, and are in a position to obtain reliable information respecting all dividend and progressive mines. gressive mines.
N.B.—Messrs. Houler and Co. publish a Weekly Mining List, with the closing price every Wednesday, and will be most happy to forward the same (gratis) on application

MR. GEORGE BATTERS, 5, COWPER'S COURT, BIRCHIN
IANE, DEALER IN BRITISH MINING SHARES AND OTHER STOCKS.
Mr. BATTERS, from long experience and intimate acquaintance with all Mining Stocks, can advise as to investment of capital, at the closest market prices, and has made a solection from the mines of North Wales likely to be largely profitable in respect of dividends, and with great prospects of advance in market value. Full particulars from personal inspection can be had on application.
Mr. Batters for some time past has been studying the North Wales lead mining district, and periodically inspects its most important mines, and is at all times in correspondence with the most inaligent agents in the counties of Flint and Denbigh, and will be happy to advise with his correspondents as to investments in these important districts.
Mr. Batters is a BUYER or SELLER in most of the leading mines in Cornwall and in the Principality, and has FOS SALE 100 East Grenville, 5 Bryn Gwiog, 10 East Caradon, 3 West Bryn Gwiog, 2 Billing, 50 North Minera, 1 Silver Rake, and 20 Great Wheal Martha, at market prices, free of commission, and confidently recommends the selection as likely to prove very profitable.

MR. T. E. W. THOMAS, MINING AGENT AND GENERAL MINING SHAREDEALER, 16, HACKINS HEY, LIVERPOOL. The following shares have been placed in the hands of Mr. Thomas FOR SALE; and such stock not having a daily market quotation, Mr. Thomas would be glad to treat with anyone wishing to purchase any part thereof:—25 Sliver Valley, 2 St. Anbyn and Grylls, 50 Wheal Rose, 11 West Aifred Consols, 150 North Downs and Wheal Rose, 4 Trebaryah, 10 East Margaret, 12 East Trefusis, 1 Deep Level (Lead, Halkin), 5 Wh Trefusis.

JOHN R. PIKE, GENERAL SHAREDEALER, 3, PINNER'S COURT, OLD BROAD STREET, LONDON, E.C.

FREDERICK WILLIAM MANSELL, MINING OFFICES, 1, HATTON COURT, THREADNEEDLE STREET, LONDON, E.C. Bankers: London Joint-Stock Bank.

RICHARD CLIFT, MINE SHAREDEALER, late of Redruth, now 48, THREADNEEDLE-STREET, LONDON, where all 2

M R. THOMAS SPARGO, SHAREBROKER, 224 and 225, GRESHAM HOUSE, OLD BROAD STREET, LONDON, E.C. Commission, 2½ per cent.

MR. J. O. HARRIS (nearly nine years with Mr. C. Wescomb), ACCOUNTANT AND STOCK AND SHAREBROKER, SOUTHERNHAY, EXETER, near the Theatre.

Stock and Mining Exchange Lists received daily.

LONDON MINE AGENCY (ESTABLISHED 1848).

LONDON MINE AGENCY (ESTABLISHED 1848).

REMOVAL.—MR. PEET'S MINE AGENCY is REMOVED to

62, MOORGATE STREET, LONDON, where information may be had upon all
mines, British or foreign.

Office of reference to mines. Reports furnished from competent and confidential agents.

Loans upon shares, and stocks purchased or sold on the usual commission.

Note.—A few gentiemen may now join in the purchase of a mine, with great chances
of a successful return for small outlay.

Mr. Perr calls attention to the Silver Bank Mines, as a valuable property, and will
furnish particulars on application. These shares will soon be at a high premium upon
the merits of the mines, tested by sales of ore.

62, Moorgate-street, London, February, 1861.

JOHN GLEDHILL AND CO., MINE AGENTS AND SHAREBROKERS, MINING OFFICES, CORN EXCHANGE, LEEDS.

M. R. J. SYKES, LEEK, STAFFORDSHIRE.
WANTED: -5 Caradon Consols, £8; 50 Dale, 15s.; 10 Crebor, 10s.; 20 Kelly
Bray, £1.—FOR SALE: 2 East Treskerby; 30 Dale, 17s. 6d.; 100 South Wb. Margaret.
Parties wishing to dispose of shares can have them inserted free of cost unless a sale is effected.

ESSRS. THOMAS PENROSE and THOMAS PRICE UNDERTAKE ASSAYS and ANALYSES OF EVERY DESCRIPTION OF NERAL PRODUCT, FUEL, and MANUES, at Mossrs. Richardson and Co.'s Asoftice and Laboratory, Copper Ore Wharves, Swansca.

NORTH WHEAL PROVIDENCE.—ONE HUNDRED AND FIFTY SHARES in this mine FOR SALE, at 16s. 6d.—Apply by letter, to 'X. Z.," 3, Cannon-street, E.C.

MONEY ADVANCED in town or country, at long and short dates, on STOCKS, SHARES, or OTHER PROPERTY; also, on PERSONAL SECURITY. Bills discounted.—Address, enclosing stamped envelope, "A. W. T.," News Rooms, 181, Cheapaide, London, E.C.

TO COLLIERY VIEWERS AND OTHERS.—A YOUNG GENTLEMAN who has had several years' experience in the North, and can produce satisfactory testimonials, is DESIROUS of OBTAINING a SITUATION as UNDERGROUND MANAGER. Can survey and plan, &c.—Address, "A. B.," Mining Journal office, 26, Fleet-street, London, E.C.—May 1, 1861.

RONWORKS.—A PERSON of large EXPERIENCE in the MANUFACTURE of IRON in all its branches, in England with coal, and abroad with charcon furnaces, is OPEN to a RE-ENGAGEMENT. No objection to go abroad. Satisfactory testimony can be given as to energetic and successful ability.—Address, "A. M.," Mining Journal office, 26, Fleet-street, London, E.C.

ECRETARY.—WANTED, the AID of a GENTLEMAN to FORM a small COMPANY for WORKING a MINERAL PROPERTY. The amount required is less than £1000. He may expect the secretaryship, at a moderate salary, as the duties would be very light. The undertaking is perfectly bona side and sound, as will be shown on enquiry. References will be required and offered.—Apply in the first instance to "S.Y.," care of Messrs. Pottle and Son, Royal Exchange, London.

UNDER AN ENGINEER OR CONTRACTOR.—
EMPLOYMENT WANTED by a young man on some large works in progress, in England or abroad. He is a fair draughtsman, is familiar with railway plans and surreying, writes a good and fast hand, and does not mind any amount of hard work.—
Address, "F.A. W.," care of Messrs. E. Willett and Nephew, 63, Friday-st., Cheapside. O CAPITALISTS .- In the West Riding of Yorkshire, an

EXTENSIVE COLLERY, comprising four seams of coal, upwards of 1600 acres onch, three of them now at work, is in WANT of a PARTNER, who can bring in from 612,000 to 615,000, to 611 the place of two partners who are retiring. Would not be required to take any active part in the management of the concern.—Pull particulars on didressing "M. E.," Mining Journal office, 26, Fleet-street, London, E.C. Principals only treated with.

WANTED, an EXPERIENCED FORGE and MILL MANAGER at an IRON-WORKS in WALES, where the best qualities of fron are manufactured. None need apply without a thorough knowledge of the best brands of pig-fron. Unexceptionable references required.—Apply, stating terms, to "B. H.," Mining Journal office, 26, Fleet-street, London, E.C.

FOREST OF DEAN, GLOUCESTERSHIRE.—TO BE LET, a COLLIERY, containing FOUR SEAMS of COAL, all newly opened for work, efficiently drained and ventilated, with a short communication to the railway and shipping port. A working capital of about £1500 will suffice.—Apply to "A. Z.," Post-office, Regent-street, London, W. WHEAL TREVELYAN, NEAR MARAZION, CORNWALL

WHEAL TREVELYAN, NEAR MARAZION, CORNWALL.—

I, CAPT. PETER FLOYD, the original licensee of this mine (under Willoughby John Trevelyan, Esq.), and holder of a large number of £1 free shares therein, HAVING DIRECTED PROCEEDINGS in CHANCERY TO BE TAKEN against the company, ALL PERSONS INTENDING to PURCHASE SHARES in the said mine are bereby CAUTIONED that TWO HUNDRED SHARES in the said mine ARE FREE and PAID UP to £1 per share.

And ALL PERSONS WHO may HAVE PAID HIGH PRICES FOR SHARES to B. C. Hanam and Edward King, of London, the promoters of this scheme, or either of them, ARE REQUESTED IMMEDIATELY to SEND PARTICULARS THEREOF to my solicitor, Mr. J. BERRY, 27, Bucklersbury, London, E.C.

May 1, 1861.

RELEATH TIN AND COPPER MINING COMPANY LIMITED.

EAST RELEATH MINING COMPANY

EAST RELEATH MINING COMPANY.

NOTICE IS HEREBY GIVEN, that Mr. PAUL RABY, Jun., is NO LONGER the PURSER and SECRETARY of the above companies, and that all communications relative to the business and affairs thereof must, until further notice, be addressed to me, the undersigned.

And notice is hereby also given, that ALL PERSONS HAVING CLAIMS upon or against the above-named companies, or either of them, for supplies to the mines or otherwise, ARE REQUESTED to SEND the PARTICULARS THEREOF without delay to me, the undersigned.

By order of the Directors and Shareholders,
32, Albion-street, Leeds, April 27, 1861. JOHN BLACKBURN, Solicitor

MR. MURCHISON'S REVIEW OF BRITISH MINING FOR THE QUARTER ENDING 307H MARCH, 1961, is NOW READY. Price One Shilling. At 117, Bishopsgate-street Within, London, E.C.

C H A R L E S D A V E Y A N D C O.,
SAFETY FUSE MANUFACTURERS,
ST. HELEN'S JUNCTION, LANCASHIRE.

THE MIDLAND IRON COMPANY, ROTHERHAM,
MANUFACTURERS of BEST "YORKSHIRE," and of STEEL IRON TYRE
BARS, for LOCOMOTIVE ENGINE, CARRIAGE, and WAGON WIEELS. Also
OF REFINED, SCRAP, STEEL IRON and "YORKSHIRE" BARS, HOOFS, RAILS,
ANGLE IRON, MALLEABLE SHAFTS, AXLES and FORGINGS.

Original Correspondence.

USE OF SALT IN ASSAYING COPPER ORES.

SIR,-Referring to the letters which have lately appeared in the Journal relating to the question whether the use of common salt in making assays of copper ores is injurious, we beg to hand you the following results of experiments which we have made for our own satisfaction, and which we shall be glad to have inserted in your Journal. Assays of four samples of copper ore, made in order to test whether the use of common salt is injurious, as compared with the results obtained by using purified salt:—

Produce using common a	
No. 1-Copper ore containing chloride of copper 19% per	cent 20 1-16 per cent.
No. 2-Copper ore containing sulphuret of copper 14%	14%
No. 3—Copper ore containing grey sulphuret of copper 131/2	n 13% n
No. 4—Copper are containing carbonate of copper 1914	1912

The above assays have been carefully made by our own assayer, Mr. Thomas Penrose. And the following are the results of careful manipulations of the slags by our chemist, Mr. Thomas Price. Analyses of slags, common salt having been used in the assay:—

	Weight of ore	Weight of slags	Grains of copper	Percentage of
	in grains.	in grains.	found in slags.	copper lost.
No. 1	******** 400	724	****** 607	· 1517 grs.
	400			
	400			
No. 4	400	800	***************************************	2190
Analyses	s of slags, purified	salt having be	en used in the a	ssay:—
	Weight of ore in grains,	Weight of slag	Grains of copper found in sing.	Percentage of
No. 1	400	584	****** 348	'0870 grs.
	400			
	400			
No. 4	400	560	672	1680
Swansea	April 25.		RICHARDS	ON AND CO.

IMPROVEMENTS IN THE MANUFACTURE OF STEEL,

SIR,—The subject of nitrogen being contained in some form in steel, which has been discussed in the Journal, is of the greatest interest to chemists as well as manufacturers, and it is important to us in England to have clearly before us what now fact has been established, and give the boncur accordingly to M. Francisco.

mists as well as manufacturers, and it is important to us in England to have clearly before us what now fact has been established, and give the honour accordingly to M. Fremy, if he has gone beyond the knowledge possessed on the subject by our own metallurgists. As you have pointed out long since, we were all aware of the influence of cyanogen, and of conditions favourable to the production of cyanogen upon the conversion of iron into steel. If one alkaline cyanide (say that of sodium) is useful, as was shown by Mr. Charles Sanderson, those of potassium, barium, and calcium would be almost sure to be equally efficacious.

Mr. Binks has also very clearly made out that nitrogen is useful in forming steel, and he draws a conclusion that it is contained in steel. The gist of the matter lies here—Mr. Binks has not proved the presence of nitrogen in steel. Has M. Fremy done this? The experiment recorded of a blade of steel submitted to red heat and a current of hydrogen, and which was said to give off ammonia for two hours, is simply ridiculous and incredible. What we chemists would like to know, in the absence of any published details of M. Fremy's experiments, is what quantity of nitrogen did he find in steel, and what precautions did he take to exclude nitrogen from any other careful manipulator, I think he deserves the honour of having first proved the presence of nitrogen in steel.

Sheffield, May 1. st proved the presence of nitrogen in steel.

Sheffield, May 1.

CHEMISTRY OF STEEL.

CHEMISTRY OF STEEL.

SIR,—The question of the nitrogen theory of composition still continues to occupy the attention of the foreign scientific journals, but without developing a single fact that has not already been anticipated by the English chemist. The only recent novelty in these discussions is the curious fact that these savans still continue totally to ignore the previous discovery of 1857. M. Fremy relies for his deductions a good deal on the chemical composition of the residue obtained in dissolving steel in acids. This, he says, is entirely different from carbon, and approaches, in its properties and composition, very nearly to cyanogen. Mr. Binks, in his paper of 1857, under the head of "Some Evidences of Analysis as to the Composition of Steel," dissolves the steel in acid, collects and analyses the residual matter, and then says "it is obvious that this residue is an azotised carbon, out of and then says "it is obvious that this residue is an azotised carbon, out of which fact arises some important considerations"—considerations termi-nating in his establishing the fact of the existence in steel of both nitrogen nating in his establishing the fact of the existence in steel of both nitrogen and earbon, and that in some form analogous to cyanogen. Again, M. Fremy attributes to himself the first recognition of what the real action is that takes place in the ordinary process of cementation, and that the nitrogen is essential also here. Mr. Binks, in his paper, examines also this question, and shows that it is through the interplay of the nitrogen of the atmosphere permeating the charcoal in the boxes, and giving rise to a mixture of carbonic oxide and nitrogen, that the steelifying action on the iron, in this case of conversion, is solely due. M. Fremy, therefore, was not the first to detect the presence of nitrogen in the residual matter, nor to detect the true action or agency of nitrogen in the cementation. A series of similarly parallel announcements and of clear anticipations runs throughout the whole of these two papers.

larly parallel announcements and of clear anticipations runs throughout the whole of these two papers.

Again, one of the most conspicuous of the practical deductions arrived at by Mr. Binks points to the superior applicability of cyanogen compounds for producing masses of steel, as well as for case-hardening, according to the ancient usage. There is nothing new in the application of cyanogen in steel-making. It has been used directly or indirectly for ages. It was used, but unconsciously so, by the late Mr. Heath; by Mr. McIntosh, in his steel-making by coal gas—for ammonia was present there, and this, plus the carbon under a high temperature, gave cyanogen. Mr. Binks himself, in 1846, proposed gaseous cyanogen and compounds yielding it. But in every instance, previously to Mr. Binks's paper of 1857, these cyanogen compounds—prussiate of potash, for example (i.e., ferrocyanide of potassium)—were resorted to only as convenient modes of supplying the carbon under the old theory; cyanogen consisting of one equivalent of nitrogen, plus two of carbon—the co-agency of the nitrogen being always overlooked. Mr. Binks was unquestionably the first, either in this or in any other country, to recognise the co-operation of the nitrogen as essential to steel-making, and to demonstrate the fact that its invariable presence is not merely accidental or incidental, or simply coincident. This important deduction is already bearing its practical fruits in many directions. The cyanogen compounds (or elements yielding them), because of their associated nitrogen element (and not only prussiate of potash, as of old, but others of them), will, doubtlessly, henceforth and forthwith become the principal agents in the production of steel. It is already being so made in the United States, in England (by your old friend Mr. Mushet), and in France. In due time the true interpretation (Mr. Binks's) of the chemical action of these compounds will also be universally recognised.

To recur, momentarily, to the French proceedings. A more complete

be universally recognised.

To recur, momentarily, to the French proceedings. A more complete anticipation of what is now, at this long subsequent date, brought forward as new can scarcely be conceived. In the French Academy "was produced," it is said, "a profound sensation" on the communication, by M. Fremy, of this nitrogen discovery, and yet not a word was there said as to its real authorship. Mr. Binks courteously exonerates these French gentlemen from all intentional ignoring. He believes that they never saw his paper. But one cannot say the like of some other resuscitations. The Americans have deliberately taken Mr. Binks's series of experimental demonstrations, and as deliberately ignored the authorship (see the Scientific American). One M. Fleury, of New York, writes, within the last week or two, to the Mining Journal (April 13), and with a most amusing coolness claims the nitrogen discovery as his own. It is but a poor and a short-lived game to nitrogen discovery as his own. It is but a poor and a short-lived game to that of appropriating, or of attempting to ignore, a scientific result y placed upon record. An English scientific man must, in his own already placed upon record. An English scientific man mus day, take care of his own interests, never trust to the remember tender mercies of his contemporaries or his co-laborators, whether they chance to be his own countrymen or his countrymen's transatlantic relatives—some exceptions, notwithstanding. The sympathy and the sense of justice of the French, in relation to matters of abstract science, are notorious. They will fight for their own, but they never ignore the claims of the foreigner, though that foreigner may, for the time, be even an enemy, nationally. Witness the visit, during the hottest period of the last war, of Davy to Paris, made by the special consent of the first Napoleon, and the courtesy he there and then met with.

Mr. William Fairbairn has, within the last few days, published his new book or Iron and Steel and on the "Composition of Steel." Mr. Fair-

book on Iron and Steel, and on the "Composition of Steel." Mr. Fair-bairn occupied the chair at the Society of Arts when Mr. Binks's paper was read. This new publication by Mr. Fairbairn is intended, of course, to represent exactly the present position of the chemistry as well as of the manufacture of steel. Yet has Mr. Fairbairn totally ignored the existence

of a doctrine and of demonstrations that, as scientific speculations, are deeply interesting, and that are already leading to the most important practical actions. What, in matters scientific, is the law of resistance (passive) against innovations, its quantity and duration, that ever regulates the action of established authorities? Was the chomistry here involved too far in advance of this distinguished mechanist and writer? or are the old "stereotyped and re-stereotyped doctrines about steel of the English Encyclopedias" to be perpetuated for yet another generation?

London, April 30. Chemicus Edinenis.

NEW THEORY ON THE COMPOSITION OF STEEL

SIR,—What is steel? seems to be a question to which no satisfactory reply can be given. Since the end of the last century it has always been taken for granted that this metal was a carburet of iron, and until the late researches of M. Fremy, based without doubt on the discoveries of others—for M. Fremy, be it understood, makes no claim to a new invention or disfor M. Fremy, be it understood, makes no claim to a new invention or discovery, but simply new features tending to perfect former theories—produced new and almost conclusive experiments, but which, nevertheless, render the question more intricate and difficult than ever. The systems of Mushet, Uchatius, Bessemer, Krupp, and Motay, with the theories of McIntosh, Sanderson, Binks, Caron, &c., all differ, and but few of them are carried to any practical result. This last discovery, however, of M. Fremy gives us two regular, simple, and very beautiful processes, the study of which may be made either singly or simultaneously, and enable us to determine the exact influences which ammoniacal and coal gases exercise upon iron for its conversion into steel. The constitution of steel, then, would seem to be established, both synthetically and analytically, since we can convert for its conversion into seed. The constitution of steel, then, would seem to be established, both synthetically and analytically, since we can convert iron into steel by nitrogenising it when carbonised, and deprive it of all its qualities as steel by taking away its nitrogen by means of hydrogen. The presence of hydrogen in the fuel necessary for the conversion of iron into steel will explain some of the customs in use in certain manufactories,

The presence of hydrogen in the fuel necessary for the conversion of iron into steel will explain some of the customs in use in certain manufactories, and the part that organic matter sustains by being added to the fuel used in cementing ovens. Thus the use of organic substances for producing rapid cementation; as horns, soot, leather, animal excrement, &c., are precisely those bodies which produce highly nitrogenised fuels.

We now come to a most interesting suggestion. Does there exist, as already admitted by a great number of metallurgists, minerals used in the manufacture of steel which contain substances as yet unknown to chemists, and which invest certain steels with their valuable qualities? We can only add our belief that such is the case, and patiently await the discovery of this unknown substance, accepting all improvements with gratitude, leaving the different aventors and their partisans to believe each in his own theory, and this important question, we confess it with regret, unanswered. Everyone will agree that the experiments of M. Fremy, taken as a whole, and which so happily explain or complete numberless facts already known by practice, or advanced theoretically, must throw a brilliant light on the manufacture of steel. In last week's Mining Journal you described certain processes invented by Mr. Cazanave, of Paris,* for case-hardening and softening iron, which is to my mind the putting into practice in a different manner the theories enunciated by M. Fremy; and I would direct the attention of all interested in the manufacture of iron and steel to this invention, and compliment that gentleman on either making a simultaneous discovery or putting into practice a foreign theory.

We shall give more detailed particulars of this invention in next week's Journal.

MANUEACTURE OF EDON TROOTHES PATENT

MANUFACTURE OF IRON-TOOTH'S PATENT.

*We shall give more detailed particulars of this invention in next week's Journal.

MANUFACTURE OF IRON—TOOTH'S PATENT.

Sir,—My attention has been called to some remarks which recently appeared in your columns upon the subject of Tooth's Patent Right, which Iremember was some time ago brought in question in your valuable Journal, when I endeavoured to exhibit the real state of the question of the validity of his patent. As the question to be considered in this case is one of great importance to many patentees and inventors, I now essay to supply some answers to the very apposite questions put. I would, however, premise that you are certainly quite right in considering any patent circumstanced as Mr, Tooth's is of doubful validity, though I consider there is much may be said in his favour, for although Mr. Tooth's first provisional protection lapsed, yet it appears that before any actual publication of his provisional specification took place he obtained another provisional protection, which latter he afterwards legally merged in the complete patent right, which, be it observed, has no legal connection with the first provisional protection, the only point to be considered in reference to it being the question whether such first provisional protection is such a proceeding in law as shall amount to a prior publication or bar to the legality of the second, as to which it may be argued that in contemplation of law the publication takes place as and from the day any application is made and recorded, for then a description, called the provisional specification, is deposited with the proper Government official, who may be said to be acting for the public, so that the same may be taken to be in the hands of the public as and from that day. Moreover, a person who acts as Mr. Tooth has acted would, if the law be in his favour, obtain a protection at law for his invention six months longer in duration than the person who has only one provisional protection, and does everything in the ordinary course of law; on the other h

As to the question—"How would the inventor be protected in case an infringement commences during the six months between the filing of the provisional and of the complete specification?—I have only to remark that the Patent Law Amendment Act in no case, even when all is done in the usual way, gives any right under a provisional protection only to sue for an infringement, the right being inchoate, and the description remaining unpublished, as it was, I presume, not thought fair to allow law suits to maintained without completing the patent.

As to decisions in Mr. Tooth's favour, I am unable to name any, though I have been given to understand that the Crown law officers have allowed second provisional protections at the risk of the applicants; but a bill, promoted by myself and the Patent Law Amendment Association, brought into Parliament by Mr. T. Duncombe, M.P., to settle this question, was thrown out at the instance of Sir H. Cairns, then Solicitor-General.

Patent Office, May 1.

F. W. Campin.

THE DURHAM MINING COLLEGE.

Patent Office, May 1. F. W. CAMPIN.

Sir.—At a recent meeting in London of the Coal Masters Association to question of the establishment of a Mining College for the North of SIR,—At a recent meeting in London of the Coal Masters Association the question of the establishment of a Mining College for the North of England was again brought forward, and I regret to say a resolution was passed which certainly will not add to the reputation for consistency of the members of that body. When the Mining College was first proposed it appeared likely to be established upon something like a respectable basis; but now it has degraded into a sort of begging nuisance—first, aid is sought from the University of Durham, and next from the Government; it is true the members of the Coal Masters Association have used a they, which leaves it doubtful whether it is the wish of the Association that the University or the Government should supply the funds: but surely the coalmasters sity or the Government should supply the funds; but surely the coalmasters are wealthy and influential enough to found a college for instructing their sons and servants without placing them upon a level with the children in charity schools. I contend, however, that the Mining College is not required; and that, if established, it would be worse than useless.

and that, if established, it would be worse than useless.

The coal owners have very properly opposed compulsory education for miners, or it would have been provided in the present Inspection Act, and now they very improperly beg for money for a Mining College. A mining college would be alike prejudicial to masters and men. The masters will have their work less efficiently done, because it will be left to gentlemen ith University titles instead of men who have learnt their busi

a connection with collieries, whilst from the same cause the safety of the men will be jeopardised. The inconsistency of which I complain is, that the provisions of the Coal Mine Inspection Act were objected to, and that now the very parties who opposed the educational clauses in that Act think of applying for pecuniary aid for educational purposes. If it be contended that the college would permit of a higher class of instruction being obtained, the scheme is equally valueless, for the Durham University already provides all that is necessary for engineers connected with collieries, and confers the degree of C.E. Between the thorough scientific studies which may be pursued in the University of Durham and an adult school system, which shall be available to all colliery officers and the more intelligent of the men, no intermediate stage is, in my opinion, required. no intermediate stage is, in my opinion, required.

NEW METHOD OF EXTRACTING SILVER FROM THE ORE,

SIR,—I have observed that Herr Von Pakera, an Austrian chemist, has reposed the following method of extracting silver from its ore:—By first proposed the following method of extracting silver from its ore:—By first roasting the ore with green vitriol and common salt, chlorite of silver is stated to be produced. The product, by means of hyposulphate of soda, is dissolved, and sulphite of sodium is then used to precipitate the precions metal as sulphide of silver. This, on being heated, allows the sulphur to escape as vapour, leaving the silver pure. May I ask whether any of your numerous scientific correspondents can say whether this mode of treatment effects any economy in the metallurgical operation as compared with the ordinary process, or an increased production of the precious metal? By increased production I mean a smaller amount of precious metal left in the residuum unextracted, which ordinarily is very considerable.

DISCOVERY OF GOLD IN NOVA SCOTIA.

DISCOVERY OF GOLD IN NOVA SCOTIA.

Sir.,—There was a considerable excitement last year in this province caused by the discovery of gold at Tangier, which is about 40 miles to the eastward of Halifax, and some 12 miles back from the Atlantic coast on the Tangier River. I visited the place in last July, and found the gold was being procured from loose pieces of quartz and slate mixed together, and scattered over the ground of all sizes, from large boulders to small gravel. It was in the midst of dense wood, where a small stream flowing from a lake passed among the rocks. The only ridge of rock that I could see in situ was "primitive slate," with ferruginous-stained quartz veins running through it, containing small cubes of pyrites and marcasite. No gold was discovered in the solid veins, and though many people spent some time there, and obtained some small quantities, yet I doubt if any one got paid for their labour.

paid for their labour.

About a month since a fresh discovery has been made some 10 miles from the former place, on the same Tangier River, and only a mile from the sea shore. Here the gold is obtained from a quartz vein from to 2 in. to 3 in. thick, running east and west through primitive slate, apparently underlying south, though not much can be said about it at present, as no excavation has been made below 2 ft., the men working in the rudest manner, breaking off the quartz with hoes and axes, and pounding the quartz with a hammer on any contiguous rock. This discovery is on granted lands; but as all gold and silver are reserved, the Government have sent down a surveyor, and rented out blocks of ground, 20 by 50 feet square, for \$40 per annum, in lieu of royalty; and they give the owner of the land one-tenth as a rent and for surface damage. Several claims have been taken up, and as soon as the snow is out of the woods we may expect a good many people will go to these Nova Scotia diggings, as the place is so easy of access, and so near to the United States, where so many people are now thrown out of employment. Gold has also been found at the Eastern Passage, opposite to the McNab's Island, in the Halifax Harbour, mixed with magnetic black sand, and, therefore, gold may very probably be found distributed over a large district of Nova Scotia. Only one claim where the discovery was last made is at present being worked, and in their rude way they are getting from 1 to 14 oz. per diem, for which they are getting \$18 per oz. in Halifax, as the gold is considered very pure, and is being bought up by the dentists; so that, in a short time, anyone requiring it may have their mouth filled with Nova Scotia gold.

Public attention has been again lately turned towards the importance of making Halifax a terminus for a great intercolonial railway, and I make this communication in hopes that it may assist in promoting so desirable an undertaking, both for the mother country and all the North American colonies.—Halifax, Nov aid for their labour.

About a month since a fresh discovery has been made some 10 miles

THE RISCA EXPLOSION, AND INQUEST.

SIR,—Will you kindly favour me with space in your valuable Journal of this week for the enclosed remarks, published in the Star of Greent of April 13, and made by Mr. E. Elliott, mechanical engineer, Machen Colliery, near Risea, whose name appeared in my Report as being one of the gentlemen that accompanied me in my examination of the Black Vein Pit, Risea, after the awful explosion of Dec. 1 last? I shall only trouble you to print a portion of the letter, on which I wish to make a few remarks; the other being a repetition of my dimensions and figures given in my Report, and already published in the Journal:—

Pit, Risca, after the awful explosion of Dec. I last? I shall only trouble you to print a portion of the letter, on which I wish to make a few remarks; the other being a repetition of my dimensions and figures given in my Report, and already published in the Journal:—

"In company with Mr. Paimer, Mr. Morgan, Mr. Shearne, and others, on Jan. 22 and the two following days I descended the No. I Black Vein Pit. On Jan. 22, after having examined the barometer, we proceeded about 80 yards down the slope or incline bank, and there measured the air. We found by the anemometer that 44,591 cubic feet of air per minute was passing into the workings. On the 24th we again measured the air in the same place, and found 44,752 cubic feet of air per minute; the average lineal velocity here was 13 ft. per second. On the 22d we measured the air at the bottom of the slope, where it splits into the east and west sides, and on the fourth east or lowest level found 11,730 cubic feet per minute passing through the main intake, where all the air passed which ventilates the cast side, except a split of 3000 ft. per minute that passen place, measured the air, and found 10,740 cubic feet per minute passing; the average lineal velocity here being 534 ft. per second. On the 23d we found 10,163 cubic feet per minute passing into the third or lowest west level, being the main intake through which all the air passes which ventilated the west side then, as it did before the explosion. On the 24th we found in the same place 11,003 cubic feet per minute; the average lineal velocity being 6 ft. per second. These measurements in the 3d west and 4th east main intakes, including the split of 3000 cubic feet per minute into the first east level, show a deficiency of 20,000 cubic feet per minute workings. Or the east side, about 29 yards from the separation-doors, we found 20,081 cubic feet per minute, at a velocity of 124 ft. per second. The difference here between the fourth east linake (10,740) and the scale of 3000 cubic feet per minute into the f the measurements were taken. Granting Mr. Morgan's statements with regard to this missing quantity of air to be in a measure correct, yet I contend there are reasons, governed solely on mechanical laws, that in mines, where machines on the same principle as Mr. Strave's are employed for ventilation, there will in all cases be more air shown by the anemometer in the intakes than the returns. In order to satisfy myself on this point, I have recently made experiments in the Black Veln, the results of which are as remed solely on mechanical laws, that in mines, where machines on the same principle as Mr. Struvés are comployed for ventilation, there will in all cases be more air shown by the anemometer in the intakes than the returns. In order to satisfy myself on this point, I have recently made experiments in the Black Vein, the results of which are as follows:—I found the entire quantity of air which ventilates the workings of the Black Vein to be 37,356 cubic feet per minute, and scaling through the main separation-doors 2853 cubic feet per minute, making the total quantity circulating through the mins exparation-doors found to be passing 38,052 cubic feet per minute. This, deducted from the above quantity, shows a deficiency in the returns of 4856 cubic feet per minute, and from the theoretical calculation a deficiency of 10,352 cubic feet per minute, and from the theoretical exclusion of the downcast indicated 29 8-10th in. of mercury, and the thermometer at the bottom of the downcast indicated 29 8-10th in. of mercury, and the thermometer 50° Fabr. * * * My opinion with regard to the deficiency in the returns is that the air, after passing through the workings, is expanded to a certain extent, and becomes lighter in body. Hence before it can be discharged against the pressure of the atmosphere (147 lbs. per square inch) it must be brought into the same density as it is at the top of the downcast pit. This is effected when the air-piston is at the return of the strok, at which time a certain amount of atmospheric air rushes through the flaps before they close. Under these circumstances, I contend that it is an utter impossibility for the machine to pump the quantity of air it is calculated to do."

The mining public will please remember that the engine slope, or main intake air-course, where Mr. Elliott measured the air, is the only ingress for air through the mines; and by top of upcast shaft, where he registered the return air, is the only express for the discharge of the return air after passing through the mines. Your readers will perceive that Mr. Elliott comes to the conclusion that 43.718 cable feet of air per minute was

circulating through the mines, which I do not dispute the correctness of; but to me the most wonderful part is that he could only find 38,092 cubic feet in the main return by the ventilating machine, where all the air that descends the engine slope, or main intake, must be discharged. At the same time, Mr. Elliott admits that the air is expanded in volume by passing through the mines. Query,—Pray what has become of the other 4686 cubic feet per minute that he accounts for in the intake, but unaccounted for in the return (say nothing about the air being expanded in volume by passing through the mines)? Is this quantity of air (4686 cubic feet per minute) annihilated, and put out of existence, or how is it to be accounted for by Mr. Elliott see where of pneumatics?

I should deem it a favour if any of your intelligent correspondents (theoretical and practical) would be good enough to favour myself and the mining world with their opinion or the important (but to me condicting) theory of Mr. Elliott; and if such a state of things can possibly exist without overthrowing all the ancient and modern laws of pneumatics, so as to give room for Mr. Elliott's new law. Indeed, if such statements be correct, the result will be that many eminent mining engineers of long standing must go to school to Mr. Elliott, and amongst the humblest of them I shall try and creep in myself.—Brendon Hills, April 29.

——Morean Morgan, Mining Engineer.

CERTIFICATES TO UNDERGROUND MANAGERS OF COAL MINES.

MINES.

Sir,—I am glad to see that the very excellent proposition for prohibiting the employment of other than certificated colliery officers is still receiving attention; for I am thoroughly convinced that until some such system be adopted there will never be introduced the most efficient known modes of conducting colliery operations. Mr. Fryar's views are, I think, in every way worthy of consideration, and there can be no doubt that from his position he would be very certain not to propose anything likely to act against the master, nor indeed anything that he is not prepared to prove would be alike beneficial to masters and workmen. The arguments which have been adduced in the Mining Journal are, in my opinion, almost conclusive in favour of the granting of Government certificates; but, as in all these matters there are conflicting interests to be considered, I have not seen any detailed and systematic statement of the objections to the scheme, and think that if this were published it would greatly aid in putting the matter in its proper light. If Mr. Mark Fryar would undertake to give this as far as he is able, he would add to the many benefits he has conferred on working colliers, and will, I am convinced, be the means of enabling every objection to be refuted.

D. B. abling every objection to be refuted.

VENTILATION OF MINES.

VENTILATION OF MINES.

Sir,—I give Mr. H. W. Reveley credit for good intentions in his communication in the Journal of April 20, though practical experience would soon convince him of the impracticability of his views. I will, however, begin where he has left off, and ask,—1. Does any man who has had ten years' practice in coal mines approve of flexible gas-pipes in a pit 200 fms. deep? The first difficulty is to get the gas to descend; then two or three miles, at least, of mains to be kept tight; then twenty or thirty miles of branch pipes, and the same of flexible pipes. In most mines the roof is subject to falling, in greater or less quantities, sufficient to crush and burst such pipes; and as soon as the pillar workings commence the thill heaves and supashes everything iald continuously, as in the case of pipes. Above all, it is adding fuel to the fire, and making more danger of explosion than before; and instead of avoiding an "army of vericokers, fremen," &c., there would be required an additional division, or, at least, regiment of gas-fitters, plumbers, &c.—2. I do not see where "a few only" of safety-lamps could be hung up a permanent points, to give warning of the undue presence of "hydrogen" (perhaps carbon would have been as near the mark), "so that signals could be sent to bank" for the duplicate ventilating apparatus to go it a little harder. The coal face is a place where gas generally is met with, particularly in the case of blowers; this could hardly be considered a "permanent point;" and with naked lights at hand there would be just as great likelihood of the gas coming in contact with them as with the "permanent points," where some one would have to be stationed to watch them.—Lastly, I do not at all see that "the great object is only to be attained by sinking upcast shafts or large bore-holes underground, at which all foul and heated air and hydrogen would naturally accumulate." The hydrogen (Mr. Reveley is a pitman he ought to know something more of his profession; and if he is not, he had

BORING FOR COAL-"SINGULAR PHENOMENA."

Sir.—A paragraph in last week's Journal headed "Singular Pheno-non," hardly conveys the full information which many desire, and I am, therefore, induced to send you some particulars of general interest relative to a matter which is novel and instructive to the intelligent, and marvel-loge to the surface.

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non," hardly conveys the full information which many desire, and I am, therefore, induced to send you some particulars of general interest relative to a matter which is novel and instructive to the intelligent, and marvellous to the vulgar.

Near the Featherston station, about three miles and a half from Pontefract, and five miles and a half from Wakefield, boring for coal has been in progress for some time, and has reached a depth of 140 yds. from the surface. At this depth the boring was advancing through a thick layer of blue sandstone, which overlies the coal-bearing strata throughout a wide area in this district. On Saturday, April 13, while the borers were at work, a strong smell of gas was perceived, and suddenly an eruption took place, which there with muddy water from the bore-hole about 30 ft. in the air. This continued, and put an end to the boring. Subsequently, some one applied a light to the gas, which then formed a flery pillar of considerable height, such as would be formed by fgniting the gas that would issue from a broken street-main through a hole in the soil above it containing water. An exact initiation of this natural phenomenon may be obtained on a small scale by placing the end of a small gas-pipe in water, and igniting the gas as it bubbles through the surface of the water. The gas at Featherstone has continued burning ever since it was lighted, but with a gradually diminishing flame, and it now ascends to about 5 ft. above the level of the water. The flame can be put out by beating the surface of the water. The flame can be put out by beating the surface of the water as a complete the pleasure.

Popular opinion on this matter is very amusing, and helps to show how in a less enlightened age natural occurrences were set down to witcheraft or miracle. Some persons aver that the gas atook fire of its own accord, without human intervention, and predict a burning of long duration. Others assert that the gas is on fire "at bottom;" so that 140 yards depth of water so boliging enough to such a

FATAL RESULTS FROM PREMATURE EXPLOSIONS

FATAL RESULTS FROM PREMATURE EXPLOSIONS.

SIR,—I perceive by last week's Journal that death has again been the result of premature explosion in Cornwall, and I would ask, with you, "when will blasting with naked powder be done away with?" Allow me also to add my humble effort to persuade mine agents to entirely prohibit its use, as with a knowledge of the frequent fatal results arising from this cause a continuance in the present practice, although a remedy is provided, may bring blood-guiltiness on their heads, to say nothing of the curses of the widow and the fatherless.

The recklessness which I have witnessed, and which I have no doubt is still practised by many careless beings, is really fearful; and the wonder is not so much that there are many victims as that there are so few. Capt. Webb should feel no delicacy in advocating the use of cartridges because he has a patent for some peculiar construction; the man who can produce the means of saving human life is a benefactor to society, and as such should be rewarded. I have no doubt Capt. Webb's cartridges are

such should be rewarded. I have no doubt Capt. Webb's cartridges all that can be desired for every situation, still the miner is not compell to adopt them, since a cartridge can readily be prepared by rolling a little brown paper on a "swab-stick," and securing the edges with grease; but if it be left to the choice of the men, cartridges will only be used when the presence of water compels it.

esence of water compels it.

Mr. W. Carne, of Falmouth, once did me the honour to ask my opinion Mr. W. Carne, of Falmouth, once did me the honour to ask my opinion of their use, when I unhesitatingly approved. He immediately confirmed me in this opinion, by stating that at a mine in which he was manager (I think Wheal Lovel) he had forbidden the use of naked powder under any circumstances, and only supplied the men with "Copeland's cartridges;" the consequence was that only one accident had occurred in the year, and that oness proved to arise from theuse of naked powder, surreptitiously obtained. There is another practice in blasting which I would take this opportunity to deprecate, and that is "tamping with a mallet"—Cornishmen will understand the term. I have known agents inflict a fine on all parties detected in this practice, which can also count its many victims, and yet men would persist in doing it.

The process of charging a hole is one in which too much care cannot be taken, and the tamping should be done with a hammer only. I feel no

hesitation in asserting that a hole which will not lift its burden when properly tamped with a hammer, wielded by one hand, is improperly placed.

I hope for the credit of the mine management of Cornwall that the plan adopted by Mr. Carne, and, as I see in your report of the accident at the Charlestown United and the Cuddra Mines, will become general throughout the county; and I would further suggest that the mode of blasting is a subject well worthy the attention of the Miners' Association of Cornwall, and that both members and lecturers should lose no opportunity of decrying the present reckless system.

WILLIAM RICKARD. ing the present reckless system.

Academy, 4, Myrtle-street, Liverpool, May 1.

THE MINING INTEREST-INTERNATIONAL EXHIBITION ог 1862.

Sir.,—I enclose copies of a Memorial sent to Her Majesty's Commissioners for the Exhibition of 1862, and their answer to the same, and shall feel obliged if you will insert them in your next Journal.

Neath, April 30.

Alexander Williams.

To HER MAJESTY'S COMMISSIONERS FOR THE GREAT EXHIBITION OF 1862.

To Her MAISSTY'S COMMISSIONERS FOR THE GREAT EXHIBITION OF 1862.

We, the undersigned owners of mineral property, producers of minerals, mineral manufacturers, and others, either exhibitors in the Great Exhibition of 1851, or intended exhibitors in the proposed Exhibition of 1862, beg to direct your early attention to the desirableness of preparing and publishing, as soon as possible, some digested plan, seconding to which the minerals and mineral manufactures in the coming Exhibition shall be arranged. We further beg respectfully to suggest that s: the plan should admit of the various minerals and mineral manufactures being so placed and arranged as to admit of a ready comparison of similar productions, and also et awa materials being exhibited as far as possible in direct relation with the various manufactures they are used for.

We submit that by the early publication of some plan or method of arrangement to be adopted in the building, we shall, as exhibitors, be placed in the best position for carrying out the object of the Exhibition, to exhibit progress in manufacture, and, at the same time, shall be best enabled to prepare and adapt the various objects we desire to exhibit.

Verten and Some M. Mogrations. Geograp Great Francis, a Local Commission of the contractions of the contraction of the contraction of the comparison of the contraction of the contr

carrying out the object of the Exhibition, to exhibit progress in manufacture, and, at the same time, shall be best enabled to prepare and adapt the various objects we designed to exhibit.

Vivian and Sons; M. Moggridge; George Grant Francis, a Local Commissioners, 1851 Exhibition; the Governor and Company of Copper Miners in England, per Wm. Price Stravé; John Biddulph; Townshend Wood and Co.; Johna Williams and Co.; Aberdylais Tin. Works; Arthur Eankart, Red Jacket Copper-Works; Griffith Lawis, Ynismedw Brick Company; C. W. Neville, Llamelly Copper-Works; Morgan, Perkins, and Co., Colliery Owners, Lianelly; John S. Tregonning and Co., Tin-Plate Works, Llamelly; Townshend, Tregonning and Co., Tin-Plate Works, Llamelly; Poseth Abbey Coal Company and Self, per H. H. Price; Penrose and Starbuck, Colliery Proprietors; Smith, Morris, and Co., Vernon Tin-Plate Works, Neath; Dillwyn and Co.; Sweetland, Tuttle and Co., Briton Ferry Copper-Works; Redrock Tin-Plate Company; R. Kryke Penson; the Rhos Colliery Company, and the Ynisneath Colliery Company, per George Bush; the Relincrythan Company, Chemical Works, Neath; Richard Morgan and Sons, Anthracite Coalowners, Llanelly, Carmarhenshire; William Roper, Penclawdd and Corrway Collieries, Llanelly; Neath Abbey Iron Company, Neath Abbey, Neath; J. W. Young, Mineral Paint Manufacturer, Neath; Gadlys Iron Company, Aberdare; David Davies, Blacagwayr Collieries; Samuel Thomas, Sguborwen Colliery; Ebenezer Lewis, Bwilfa Colliery; Crawshay Balley; the Aberdare Iron Company, Aberdare; the Aberdare Coal Company, Crawshay Balley; the Aberdare Iron Company, Aberdare; the Aberdare Coal Company, Aberdare.

and of inducing coppersmitts and coner manufacturers via activation of the employment of the raw material.

Should it not be practicable to induce manufacturers thus to give up their manufacturers for the purpose, another course would be for the mineral producers to furnish the manufacturers of copper goods with samples of the raw materials, and to induce them to place the samples with the manufacturers. It will be obvious, however, that as the manufacturers in copper may be more numerous than the producers of the raw material; twould not be necessary that each manufacturer should exhibit raw materials obtained from similar sources. All such mutual arrangements, however, must be voluntary, and must be organised independently of the direct action of the Commissioners, who, whilst they will be happy to afford any assistance in their power, cannot enter upon the cost or responsibility of making them.

In the Paris Exhibition the productions of the larger exhibiting nations were separated in four or more places in the buildings. For example, the machinery of all countries (with some exceptions, however) was brought together; so were the chemical manufactures, minerals, &c. The Commissioners hope they will be able to adopt, and even extend, the same principle in the Exhibition of 1862, without impairing the highly interesting features which arise from national groups. How far it may be possible to carry out this principle must be determined after the wishes and intentions of the foreign countries and the British colonies are known, and the carly information they may afford to the Commissioners.

The Commissioners are preparing a list of the different producers and manufacturers in the United Kingdom, who will be arranged according to the ciasses of the Exhibition which have been already published, and as soon as this list is ready copies shall be sent to the memorialists.

MINIERALS IN THE SCOTTISH HIGHLANDS.

MINERALS IN THE SCOTTISH HIGHLANDS.

MINERALS IN THE SCOTTISH HIGHLANDS.

LETTER TO HIS GRACE THE DUKE OF RICHMOND.

MY LORD DUKE,—I address this letter to you, through the Mining Journal, in the hope that I may possibly be instrumental, through the weight of your lordship's name, to direct attention to a subject of immense importance to the Scottish Highlands. Before the discovery and development of its rich mineral resources, the land of Llewellyn was poor indeed; but since its rugged mountains have been disembowelled—since energy, enterprise, and science have dug down into the caverns of the earth, and brought up the wealth that lay buried there—palatial structures have arisen on every hand, and princely fortunes been realised all over the principality. The Scottish Highlands is at present much about what Wales was in the days of its pride and its poverty. As a rule, the proprietors are poor and spiritless; destitute of capital, energy, and enterprise, and obstinately bent on defending their own best interests. They have depopulated the dimensions of counties, and expatriated by tens of thousands the best blood of the Highlands,—those stout hearts and stalwart limbs whose terrife valour, victorious in every field, lent a deathless lustre to the British arms,—to create lonely haunts for the useless deer and other kinds of game; and they have left, and still leave, unwrought, unseanched for, and undeveloped those rich mines of mineral wealth which undoubtedly exist in the Highlands, and the working of which would make men of them and enrich the country. My Lord Duke, will you not set an example in the North? You might do so, and make a princely income more princely still. You have but recently succeeded to the ancestral honours and broad acres sufficient to make a German state. Your tenantry, I hear, hold you in high estimation. I am told you are expected to make a good landlord; and I am glad to learn that you have not distinguished yourself as a game preserver. Good, my Lord Duke; I trust I shall always be able to say the same of you. Now, on y

PRACTICAL MINING-"SPALLING."

PRACTICAL MINING—"SPALLING."

Sin,—Capt. Wasley, in his letter of April 13, seems to forget the most important point under consideration,—the insention and introduction of the spalling or cobbing machine in the South of Ireland. He says, however, that my machine is worthless. I am quite ready to admit that my machine may be improved; and where will you find the first experiment that may not be improved? Still, I am certain that my machine asswers the purpose for which it was intended,—that is, to act as a "separator" as well as a "preparator," as the drawings clearly indicate; and, what is more important still, it reduced the cost, as stated in my former letter, and will cob as much stuff in a day as fifty girls. I received no aid or assistance whatever from Capt. Wasley in its construction or erection, and it was at work more than twelve months before Mr. Smith ever saw it. I received another about twelve months ago, which performs its work admirably, and this machine Messra. Wasley and Smith never saw. I will never pirate another man's ideas and use them as my own, and would wish others to do the same. The main question, however, is—Who originated the idea of spalling and cobbing in the South of Ireland by machinery instead of hand labour? Will Messrs. Wasley and Smith attempt to say that the idea originated with them? I defy them to do so. And when I asked them, as well as many other parties, if some sort of machinery could not be introduced to save the cost of spalling and cobbing, everybody (as remarked in a former letter) had a crude plan of his own, but nobody could tell me what plan to adopt, nor could I get a practical idea from any man I spoke to on the subject; but whether my machine is worthless or not, it does its work well, and sayes a vast amount of cost, which was the original object I had in view.

Allow me a word in explanation in reference to Capt. Wasley's remarks about my

machine being thrown out, &c., by Mr. Smith. My machine, as stated above, is a "separator" and "preparator;" in other words, it is adapted for cobbing, sorting, or separating the stuff into different sizes; but the small wheel we had at Kenmare not being of sufficient power to drive all the gear, Mr. Smith resoarched to me one day that he had seen a machine many years ago in Cornwall for breaking hard stuff, called a "dry knocker." I sam not quite certain, but I think he said the "dry knocker" was erected by Capt. Robin Williams; and if I would allow him he would try and erect a small machine on the same plan. He did so, and it breke atones very well, but it had nothing whetever to do with my machine; and Messrs. Wasley and Smith's "Patent Preparator," for anything I know to the contrary (and about which so much has been aid), may be a resuscitation of the "dry knocker." Having, I fear, escreached too much on your space, I beg, in conclusion, to state that I shall not refer again to this subject, but wish Messrs. Wasley and Smith every success with their "Patent Preparator."

April 27.

WM. Thomas.

BROAD'S PATENT FOR SMELTING IRON.

BROAD'S PATENT FOR SMELTING IRON.

Sin,—A letter under this heading, from Mr. John Onions, of Birmingham, in the Journal of April 20, calls for a few remarks from me to put the public right on its subject matter. It appears that in 1856 Mr. Onions took out a patent for the introduction of charcoal dust, or small charcoal, with smoke of all kinds, into blast-furnaces, through the tuyeres, in order to improve the quality of the iron, forgetting, however, or at all events not making himself acquainted with, the fact that for many years before the thought entered into his mind several parties had, at different times and places, tried the same thing, and had on various occasions injected into their furnaces with the blast both charcoal-dust and small coal or slack, but from the inefficiency of their apparatus or means employed, and the difficulties to be overcome by controlling the blast, it could never be carried out to any practical or commercial advantage. An apparatus is now, however, before the public by which all these difficulties are overcome.

Although I have seen the propriety so long since as 1845 of economising so large a quantity of small materials as have been for more than a century partially lost or thrown away, and at that time made a drawing of an apparatus for its remedy, I could not complete it to my satisfaction, knowing all the practical difficulties that must be removed to make it complete. In 1859, however, I did complete a drawing to my satisfaction, and made a model of an apparatus, which I have subsequently found to be more efficient in carrying cut my long-thought-of hopes and views. This apparatus is of the most simple and fiexpensive character, not at all liable to get out of working order, and may, with common or ordinary care, be worked for years without any repairs. This apparatusing pixtened in 'chiyl last, the particulars of which may be seen by perusing my specification, No. 1759, 1760, which can be obtained at the Patent Office.

J. Broad.

MINING ENTERPRISE IN SPAIN.

MINING ENTERITIES IN STAIN.

Sir.—In this age of quackery, and with alchemy still in the ascendant, it is truly refreshing to have a mining enterprise introduced to us bearing the impress of a sterling adventure. I have read with much satisfaction the prospectus of the Beariz Tin Streaming Company, now before the public; the reports thereon, emanating from men so deservedly popular in the mining world, and so eminently qualified to determine the merits of this undertaking, are deserving every attention and respect. Captains Dalley and Barratt are well known in Comwall to be first-rate timers, and safe men; and I have much pleasure in recommending this enterprise to the notice of the capitalist, believing it to contain the elements of a great success, and to be devoid of risk, the usual concomitant of mining. A passing word to the directors. Give all speculative theorists a wide berth; stick to your Cornish agents; with Dalley and Barratt at the helm you are safe to bring your ship into port.—May 2.

Phillo Trynoon.

THE WELSH SLATE TRADE.

THE WELSH SLATE TRADE.

Sin,—Since I last addressed you I have been down in Wales, and was much pleased to see that the frequent observations which have appeared in your valuable Journal on the remunerative nature of state quarries have had the effect of bringing into existence many new companies, having for their object the production and sale of that valuable mineral. From what I remarked during my visit to the Principality, I am induced to believe that several of these new enterprises are likely to prove eminently successful, the quarries having been well selected, ample capital raised, and judicious management secured. All that seems now to be requisite is a proper amount of patience on the part of shareholders, who will, no doubt, in due time be rewarded by the declaration of handsome and continuous dividends.

Amongst the most promising of these speculations I am inclined to place the Moellyn Quanty, where the works are now being carried on with great vigour, under a most energetic manager: and it needs no prophet to forestell that within two years this quarry will be highly productive, and materially assist in remedying the very great want at present fait in the market, where the demand for slates so greatly exceeds the supply. I would here observe, en passant, that I am not disposed to condemn all the work done at this quarry by the late manager. I consider he was perfectly correct in driving the upper level, which I regret has now been abandoned.

Of course, I visited the far-famed quarries belonging to Lord Palmerston and others, and very much gratified, indeed, I was with my inspection of these wonderful and highly-remunerative works. Their valuables easms of slate is said to run through the Moelwyn Mountain, which, I think, is highly probable. Apropos of this magnificent seam, I found, to my surprise, that a new quarry is being opened immediately adjoining that of Lord Palmerston and others, and which has, without any doubt, this much-coveted seam runming through lise entire length. The name of this

[ADVERTISEMENT.] MOUNT PLEASANT MINE (MOLD, FLINTSHIRE).

MOUNT PLEASANT MINE (Mold), Flintshire).

Sir,—Owing to absence from home I have had no opportunity of paying carlier attention to Mr. Davies's letter of April 17, which upon perusal I find contains some few remarks, perhaps, that are entitled to explanation.

From the onset of my first letter, in reply to the anonymous paragraph, I have taken every possible care not to adduce any statement but what can be undeniably proved by facts and figures; and still acting upon the same principle, I will confine myself to those portions of Mr. Davies's last letter that are deserving of some notice, and discard the remainder as unterly inapplicable and, I am sorry to say, for the most part failaclous. The first question I arrive at, which has not before been referred to in my former letters, is as follows:—"Does Mr. Williams, in his statement of Midaummer, 1860, give the details of the monthy accounts?" Could anything be more absurd than to expect the insertion of details in a half-yearly abstract of accounts; but let me tell you that nearly four months out of this half-year belongs to Mr. Davies's management, and hence my inability to prepare so regular a statement as I could have wished. It also appears I am at fault in the Christmas account; and Mr. Davies very inferentially enquires how is it that the amount of 1281. 18s. 4½6., deducted from the men for candies, powder, &c., does not appear on the other side of the account?" I am sure no one conversant with mine accounts would have asked so simple a question; the deductions for materials, drawing, landing, &c., having been made in the usual manner upon the cost-book, and the nett balance of the carrings only carried out into the column of disbursements. Let me inform you that this same enquiry was made by Mr. Davies at the last meeting of shareholders, and the cost-book produced and examined, and the system fully explained to him by Mr. Thos. Evans, a shareholder and particular friend of Mr. Davies. Now, Sir, may I ask that was the international particular friend of Mr

ferees, and the party at fault to pay all expenses.

Ty-Ucha, Mold, April 30.

MINERAL WEALTH OF SAVOY .- A letter from Chambery states that discoveries have been made by Imperial engineers of various rich mines, particularly of copper, in the newly-annexed province of Savoy. Surveys are being made by order of the Emperor, and thrity-six applications for grants of land have been made to the Imperial Government by wealthy capitalists since the annexation. The Prefect of the new department of the Alps has published an account of the discoveries made, showing the advantages offered by the mines of Savoy to persons of capital and industry.—Times.

the advantages offered by the mines of Savoy to persons of capital and industry.—Times.

LAKE SUPERIOR COPPER.—HEAYY MASSES.—During the past two weeks the contractors who transport the Minesota copper to the Lake have been taking down masses of extraordinary size.—Since March 16 they have hauled on sides pieces weighing as follows:—7326 lbs., 7100 lbs., 7254 lbs., 7290 lbs., 8220 lbs., 9450 lbs., 7140 lbs., 7254 lbs., 7290 lbs., 8220 lbs., 9450 lbs., 7140 lbs., 7254 lbs., 7200 lbs., 7251 lbs., 7254 lbs., 7300 lbs., 7251 lbs., 7252 lbs., 7300 lbs., 7251 lbs., 7252 lbs., 7400 lbs., 7270 lbs.

Rach of these were drawn by a single pair of horses. They also brought down, but with a four-horse team, four masses, weighing 12,500 lbs., 11,420 lbs., 10,500 lbs., and 12,650 lbs.; the latter and several of the smaller ones were from the Rockland Mine. The mass of 11,150 lbs. is the largest over brought by a single span of horses over the road. We have here the weight of 26 masses brought down the past two weeks from two mines, the heavist mas, from the National, having come forward some weeks since. The average weight of these masses is 4 tons 1312 lbs., and the aggregate weight over 1295¢ tons, including, as will be seen, those only which weigh over 7000 lbs., and less than a motety of the entire amount of mineral received here during the time.—Lake Superior Miner.

Meetings of Mining Companies.

TRELOWETH MINING COMPANY.

An ordinary general meeting of proprietors was held at the company's offices, New road-street, on Tuesday,—Mr. BRIGHTMAN in the chair.

Mr. E. J. Cole (the secretary) read the notice convening the meeting, and the mi of the last were read and confirmed. The accounts showed—

Leaving debit balance..... £ 830 14 4

The report of the agent was read, as follows :-

The report of the agent was read, as follows:—

April 29.—The engine-shaft is sunk below the 134 fm. level 1 fm. 5 ft.; lode at present worth 15t. per fm. The 134 is extended east of engine-shaft 6 fms. 5 ft. 6 in.; the lode at present is yleiding a little copper ore, and is improving as we get towards the winze sinking below the 124, where we have a lode worth for copper ore at least 30t. per fathom, and it appears to be dipgling east. The 134 is extended west of Cole's engine-shaft 4 fms. 0 ft. 6 in.; lode confitting stones of copper ores, and it seems likely to improve in value. The 124 is extended east of engine-shaft 28 fms. 4 ft., and the lode is worth for copper ore 30t. per fm., with a strong appearance of a continuance. The 124 is extended west of engine-shaft 15 fms. 1 ft.; the lode is this end has improved in theat 2 ft. we have opened on it, and it is now worth 12t. per fm. for copper ore. The lode in the winze sinking below the 124, east of engine-shaft, is worth 15t. per fm. The stope in back of the 134, east of engine-shaft, is worth 10t, per fm. The stope in back of the 124 east is worth 20t. per fathom. We have not yet intersected the lode in the 80, west of Woodfall's, in the cross-cut driving north, west of the cross-course, but from the water issuing from the end it indicates that the lode is near. On the whole, we are gradually improving, and I do not heighte to any that our prospects were never better, which yeu must Judge, in part, from the great improvement in value of our copper ore, and the result of the next four months' operations will far exceed in returns the past alse for the life that the, and I expect at the mext meeting to give a more favourable report of this adventure.

The Chaimman, in moving the adoption of the report and accounts, congratulated the shareholders upon the important feet that the tore had driving the late of the constant of the congratulated the shareholders are the constant of the congratulated the shareholders.

operations will far exceed in returns the past alies for the like time, and I expect at the pext meeting to give a more favourable report of this adventure.

The Charman, in moving the adoption of the report and accounts, congratulated the shareholders upon the important fact that their ore had, during the last four months, materially increased in quality, although at present it had not decreased in hardness; the consequence, therefore, was that they were unable to make returns sufficiently large to enable the committee to declare a dividend. But while he mentioned that fact, shareholders must not forget that ground of that character invariably preved far more lasting, and improved in productiveness as depth was attained. It would be eastisfactory to know that by the alterations which had been made in the pitwork by Capt. Richards—the cost of which had been includated—they would be able to sink the shaft considerably deeper without further expense. For that satisfactory and comparatively inexpensive arrangement, he thought the shareholders would agree with him that the greatest credit was due to Capt. Richards. As regarded the financial position of the company, it would be seen by the balance-sheet just submitted that there was an adverse balance of about 5001, including all liabilities up to the present time; but as it was more than probable the productiveness of the ground would continue to increase, and that the expenses would proportionately decrease, at the next general meeting, four months hence, it was very likely the accounts would show that at any rate a large proportion of the present debit balance had been cleared off. Referring to the prospects of the mine, he thought the report of Capt. Richards was so satisfactory and cheering that it spoke for itself; and as that report emanated from a man who could in every respect be implicitly relied apon, and whose every energy was devoted to the bringing about a successful issue, not only for the benefit of the interest of the general proprietary, but also f

amounted to 10111., and that a call was then made of 1000). The meeting left the matter in his hands to do the best he could with respect to the arrears, and when he informed them that the total arrears amounted to about only 400f., shareholders could form their own opinion as to the result of his endeavours.

The CHAIMAN said the specimens of ore upon the table, which had just been received, the excellence of which was admitted by all who had seen them, was, perhaps, the best tangible testimony that could be adduced of the gradually improving quality of the ore. Mr. COLLINSON, who had been recently upon the mine, stated that from all he saw and heard, he thought shareholders had good reason to be exceedingly satisfied with the prospects which their property presented. There could be no doubt that very soon all their investment. It was exceedingly pleasing to find that everybody in the locality had the highest opinion of the ability and judgment of their manager, Capt. Richards.

The SKCEKTAR, who explained the various points of operation by means of a section, stated that the 124 east had been extended 28 fathoms, and the lode was now worth 300, per fathom, and the winze being sunk to the 104 was also valued at 300, per fathom. The 104, going under the winze, and which had been driven some fathoms to the west of the present end, presented the most favourable indications. Capt. Richards, in whom he had the greatest confidence, computed that by the alteration he had made in the pitwork they would be able to sink the shaft 20 fathoms deeper without any additional expense. The lode was cut in the shaft at about the 60, since which they had been sinking upon the lode, and it was at the present time worth 131, per fm. It was expected that the 80 cross-cut would intersect the same lode a great deal further west. It must be satisfactory to know that no adventure with which Capt. Richards was connected had he so much confidence in as in Treloweth. Capt. Richards, an his whole energies were devoted to it. To his (Mr. Co

NANTEOS AND PENRHIW MINING COMPANY.

The ordinary half-yearly meeting of proprietors was held at the company's o Bishopsgate-street Within, on Thursday,

Mr. J. H. Murchison (managing director) in the chair.

Mr. J. H. Murchison (managing director) in the chair.

The notice convening the meeting having been read,
The Charibnan read his report as follows:

On meeting the shareholders at the first general meeting since the reconstitution of the company in October least, it may be interesting to draw attention to the progress made since then, both at the mine and in closing the old accounts. All the shares in the new company were accepted, pro rata, by the holders in the old company, with the exception of 110 shares (the holder of 100 of these being deceased), and on the other hand 1083 shares were applied for beyond the pro rata number, and among the applicants for these the directors had to alict all at their disposal—110. At the general special meeting of the old company, held on Sept. 3 last, the accounts to the end of July showed—
Balance of inabilities over assets

The meeting to confirm the dissolution was held on October 12, and the additional liabilities to end of September amounted to

The bad debts (of which 1171. 7s. 5d. among the assets was then stated to be "very doubful") have turned out had

The liquidators account for charges, commission, and legal expenses in winding-up the old company

, , , , , , , , , , , , , , , , , , , ,			
Total The subsequent nett amount received for ore raised to end Sept. was	€3624 353	9 17	11
Total liabilities of old company to end Sept	£3270 1621	12 6	7 10
Leaving			
Merchants and sundry other accounts	£ 619	19	8
Loan renewed by bank	300		
Debentures due in October, 1861 Liquidators account for charges and commission in Winding- up the old company. Less balance in his hands	720	6	0
TotalLiabilities of the new company to end of March, 1861	£1649	5	9
Total			
Ralance	£1489	11	10

Of which 7201, is not due till October next, and the 6191. 19s. 8d. of the old accounts is to be paid by instalments.

The only other claim is an old account, stated by Messrs. Hoppe and Boyle, the former solicitors, to be due to them, but though they have, both personally and by letter, very frequently been applied to for the particulars, they have not yet sent them in; the amount, however, cannot be large, even if really owing. I would here draw attention to the fact that the process of winding-up the old company has not been attended with any great expense or delay. No time was lost in commencing the extended operations at the beginning of November last, and since then, notwithstanding the unusually severe winter, which materially affected the progress made, a great deal of work has been done, including the erection of a new pumping-wheel in the deep adit, at Eystumisan, and the mine may now be said to be in a better state of working than ever it has been. In the deep adit, at Eystumisen, and the mine may now be said to be in a better state of working than ever it has been in to 30 fathoms, the richest part having been valued at from 2 to 4 tons of lead ore per fathom, for 4 to 5 fathoms. At 4 fathoms below the adit part of the lode was cut into, and valued, as far as seen, at 2 tons per fathom. The shart is now down 10 fathoms below the adit (or a total of about 80 fathoms from surface), and will be sumk 1½ far. more, when the lode will be cut through, and levels driven on it. It is expected that this will be accomplished in about a month, and it is a point of much interest and importance, as if the lode is found as good at that depth as there is ground for anticipatins, the returns will soon be materially increased, and value of the mine considerably enhanced. In the level west of No. 2 rise, above the adit, the lode is worth from 5 to 6 cwts, per fathom, is being sunk from the level above (Becc's) to meet this level, and the two will most likely be communicated by the beinning of June, when the sides will

the lode averaging 8 or 9 cwts. per fathom: The stopes in back of Rowe's level, west of No. 1 rise, are 10 fms. long, worked by four men, at 35s. per fm., and worth 7 cwts. per fathom. The stopes west of No. 3 rise are being worked by four men, at 26s. per fathom, lode worth 8 cwts. per fm.; and east of No. 3 rise by four men, at 26s. per fmt.) dod worth about 8 cwts. per fm. at Bwtchgwn the 30 is being driven east on No. 1 north lode by four men, at 35s. per fmt. the lode is very strong, 3 ff. wide, composed of blende, mundic, spar, and spots of ore. They are expecting daily to meet with a course of ore in this level, as the end is approaching a very promising piece of ground, which is also parallel with the rich courses of ore formerly found in the south lode. At Penrhiw there are 20 tributers working as 6d. 16s. to 7d. 10s. per ton. The returns from these operations above the adit are 20 tons of lead ore per month. As the true and only way to have a reasonable chance of bringing the miles into a profitable state, and as early as possible, is to work it vigorously, and at as many points at the same time as present fair prospects of success, when at the mine, on April 25 and 26, I examised the agent minutely, with a view of ascertaining whether further operations ought to be carried on, and I found that they were of that opinion, but had been unwilling to increase the costs. Now, from what I have just stated I need not romark that the increase of the costs by no means necessarily implies an extrawagant expenditure, but, on the contrary, a limited outlay may really be more expensive than a larger one judiciously laid out. Indeed, 1 believe that the sole cause of mines not paying is not unfrequently the limited scale on which they are worked. With these views I arranged that they should cross-cut the lode enear the present end in Rowe's level cast, as no lode has been taken down in that level, it having beer driven on the south of the lode, and also drive east of cross-cut unit to the costs. It would also be adv

A report from the agent was also read. After some discussion the reports were unani nously adopted. Mr. John Betts was appointed auditor for the ensuing year. A vote of thanks to the Chairman terminated the proceedings.

NORTH DOWNS MINING COMPANY.

general meeting of proprietors was held at the company's offices, Adam's-court, Old 1-street, on Wednesday,—Mr. R. HALLETT in the chair.

Mr. DUNSFORD (the secretary) read the notice convening the f the last were read and confirmed. The accounts showed—

Leaving credit balance £ 136 14 3

NORTH WHEAL EXMOUTH MINING COMPANY.

A general meeting of proprietors was held at the company's offices, St. Helen's-pla Mr. R. HALLETT in the chair. Mr. G. Lavington (the secretary) read the notice convening the meeting, and the

firmed. The ac

Balance last audit						
Calls received				0	1	
Mine cost, Feb. to March &						
Repaid advances	387	0	3			
Discount upon ore bills and sundries	4	0	8			
Committee	13	2	6			
Law expenses	23	10	10			
Bank of London charges	2	10	9			
Merchants bills paid	676	2	6= 1678	3	6	

Leaving credit balance£ 22 16 7

The assets exceeded the liabilities by 3171, 17s. 6d.

The report of the agent was read, as follows :--

The report of the agent was read, as follows:— May 1.—In forwarding you my report for the general meeting of shareholders, to be held to-morrow, I beg to state that since the last meeting the 30, north from Hallett's engine-shaft, has been extended about 35 fms.; the part of the lode opened on has been composed of mundic, quarts, &c., at times good stones of lead, varying in size from 1 to 2ft. wide; the stratum a very light killas, or clay-slate, and moderately easy for development. During the past week we cat in the eastern side, and find another part of the lode standing about 2ft. wide, composed chiefly of quarts, with strong spots of lead in it, but not to value. It is, however, letting out large streams of water, which makes it appear to be almost more than probable that it is the main part of the lode; this, howit, but not to value. It is, however, letting out largestreams of water, which makes it appear to be almost more than probable that it is the main part of the lode; this, however, we are for the present unable to prove, the air in the end being so very bad we are obliged to stop it for a few days, and put in an air-machine, ploes, &c., about which the men are now engaged. I have also in the past week had the back of the lode in the out a cross-cu order. I think it advisable to sink a shaft to the north of Mr. Amery's house (say) 80 cross trongly advised or 100 fms., to take the lode about 15 to 20 fms. dep. This can be done without any machinery, and for a small outlay, as well as testing the value of the lode in this important part of the sett. This can be done in about two months, and if followed with successful results a run of very light iron rods might be applied to our large engine to enable us to work that part of the mine at ease, which will effect a considerable saving in time, neither shall I ever be satisfied until this is done.—W. Skewis.

time, neither shall I ever be astisfied until this is done.—W. Skewis.

The Chairman said that upon comparing the statement of accounts just presented with that submitted four months since, it would be found that their financial position had very materially improved. At that time their merchants bills, it would be seen, amounted to 7791, but that at the present time they amounted to between 4001, and 5001. A considerable amount of the arrears of call had been recovered, and a large quantity of lead and blends had been sold, the result of which was that their present adverse balance stood at 3171, as against 522. at the last meeting.

Mr. Dockre enquired of the committee of management whether they were able to form an approximate idea as to the ultimate cost that would be incurred in the development of the mine. Their neighbour, wheat Exmouth, had called up more than 30,0001, and which sett was not so large as North Wheal Exmouth. Although he wished it to be distinctly understood that he did not complain about paying the necessary calls, he though it would be well for shareholders to know what capital was likely to be required. He knew the committee were the largest shareholders, and that for their own interest they would see that the utmost economy was exercised; but, at the same time, it would be satisfactory if some idea could be given as the probable total expenditure, and with that view he would suggest that some independent agent should be engaged to inspect the mine, to report upon its prospects, and so give gome idea of the probable cost of development.

The CHAIRMAN said it was quite as impossible for the committee to form an opinion as to the ultimate expenditure as it was for any individual shareholder. Upon the best information he had last year largely increased his interest, but the interesting problem—success or non-success—time only would solve. It was to be remembered that the reground in that district began at a very shallow depth.

The Excentark did not think the outlay incurred in the development of Wheal Exmouth for no other reason than that in Wheal Exmouth for no other reason than that in Wheal Exmouth, for no other reason than that in Wheal Exmouth, for no other reason than that in Wheal Exmouth, for no other reason than that in Wheal Exmouth two shafts had been sunk, noe of which, after having been sunk at a great expense to a depth of 80 fathoms, was thandoned.

bandoned.

Mr. Docker said that, so far from it being his intention to disparage the property by
my remarks he might have made, he could inform the committee that he had the strongest
pluion in favour of the mine, believing that it would ultimately prove a valuable property.

Mr. Docker enquired why the shaft had not been sunk during the past two months?

The Chairman said that, unfortunately, during that period they had had really no
rectical head, Captain Skewis having been in bad health.

Mr. Docker was sorry to hear that, as he believed Capt. Skewis was a very able and
efficient man.

Mr. DOCKER was sorry to near that, as no universe captures and the deficient man.

Mr. RICHARDS considered that the very worst feature in the affair was that they were merely driving without sinking. Under those circumstances it was the duty of shareholders to determine what was best to be done.

The CHARDHAM said that the committee had considered that matter, and were taking steps by which they would be able to ascertain from time to time how the mine was progressing. Shareholders might rest perfectly satisfied that the business of the company would not be neglected by the committee; in fact, their interest was so great that they could not afford to neglect their business. At the same time, however, he would be happy to receive suggestions from any shareholder.

The report having been adopted, and the accounts passed and allowed, a call of 2s. 6d.

er share was made.

Messrs. Hallett, Essex, and Richards were appointed the committee of management.

A vote of thanks to the Chairman terminated the proceedings.

UNITED MINES (TAVISTOCK) COMPANY.

An ordinary general meeting of proprietors was held at the company's offices, Austiniars, yesterday, Mr. T. Bucklane in the chair. riars, yesterday, Mr. T. Bucklane in the chair. Mr. E. King (the secretary) read the notice convening the meeting, and the minutes

the last were read and confirmed. The accounts showed-

Leaving debit balance..... £ 170 7 9

The Charman having moved the adoption of the report and accounts, stated that the amount of work done since last meeting would, no doubt, be considered very satisfactory by the shareholders, the more especially when they compared that work with their previous management.

by the shareholders, the more especially when they compared that work with their previous management.

The Secretars stated that since last meeting he had visited and inspected the mine upon three different occasions, and had much pleasure in informing his co-adventurers that since the last meeting a most unprecedented feat in mining had been performed upon their property—the sump-shaft had been sunk from the 48 to the 60 fm. level in 16 weeks, and a cross-cut had been driven a few feet towards the lode, which it was expected would be intersected in about 3 fms. driving. From the 48 fm. level, which was now exhausted, the returns had paid the cost of the operations for the last two years and a half. From the back of that level between 40004, and 50004, worth of tin had been returned, and from the highly mineralised character of the ground in the 60 he had every reason to believe that a much richer deposit of tin would be found than in the level above. The committee had that morning resolved that nine men should at once be put on to sint from the 60 to the 72, and he thought that those 12 fms. would be sunk in even less time than the last 12 fms. He trusted that before the next meeting both the 60 and the 72 fm levels would be operating in fine courses of ore. He was quite prepared to adopt the views of Capt. Tucker—that if their present operations were carried out with vigour the United Mines, Tavistock, would rank amongst some of the best paying properties in Devon. The Chairman, referring to the financial position of the undertaking, stated that he had been for many years connected with that enterprise, and it afforded him much pleasure to at last see a bright side. He believed that with the present skilful management their mine would soon produce profits.

Dr. MATHEW, in seconding the adoption of the report and accounts, expressed his enterprise.

the to at last see or origin state. To believe the mine would soon produce profits.

Dr. Mattew, in seconding the adoption of the report and accounts, expressed his enter concurrence in the views expressed by the Chairman as to the prospects which their

property presented.

Mr. M'CALLAN, previously to taking a large interest in the company, had deemed it advisable to have the mine inspected by a disinterested agent, and had, consequently, engaged Capitain Gregory, of Drake Walls, to perform that office. That report he was willing should be read for the benefit of his co-adventurers. It was of a highly satisfactory character, and quite endorsed the views expressed by Capitain Tucker, and upon the faith of it he (Mr. M'Callam) had purchased a large interest in the undertaking.

the faith of it he (Mr. McCallam) had purchased a large interest in the undertaking. The Secretary then read the report of Capt. Gregory, which was as follows:—

March 20.—The engine-shaft, of good size and length, sinking by a full force of men, is down 9½ fms. below the 48, in a very favourable and highly-mineralised killas; at the present rate of sinking they will reach the 60 within three or four weeks from this time. A cross-cut of about 3 fms. will be required to take the lode from the bottom of the shaft, so that I calculate the lode will be intersected in about two months hence, provided the same favourable ground continues, and 4 fms. east of shaft it is expected to be productive, judging from the level above; but it will require to be driven some 12 or 14 fms. to come under the good course of tin gone down in bottom of the 48 cast. The 48, west of engine-shaft, is extended about 30 fms. on the course of the north lode, which is from 2 to 4 ft. wide, composed of quartz, capel, and elvan, and a small quantity of tin, not to value. There remain 25 fms. more to drive to reach the western cross-course, and 15 fms. the couth lode has not been intersected in intersected. is from 2 to 4 ft. wide, composed of quartz, capel, and elvan, and a small quantity of tin, not to value. There remain [25 fms. more to drive to reach the western cross-course, and 15 fms. thence to the western boundary. The south lode has not been intersected in the 48, west, and, although found poor in the upper levels, I consider it prudent to put out a cross-cut to this lode, and extend the same south in scarch of other lodes. I should strongly advise this being carried out if you are in funds to do so. In the 48 east, near the engine-shaft, the north and south lodes form a junction, and continue together up to the eastern cross-course; the junction of these lodes appear to make the deposit of tin. The lode varies in size from 5 to 7 ft. wide, and has produced from 12t. to 20t, and up to 40t, per fm. for 23 fms. in length. A trial sink has been made in the bottom of this level, east of shaft, which I could not examine, but am informed by your agent the lode will produce from 20t. to 25t, per fm. on the average of this sink. I have seen a very good lode in this level on a former inspection, for some 12 to 15 fathoms in length. The backs have been nearly all taken away on tribute, consequently there is not any available tin ground in this level. The 36 east has been extended about 30 fms., or up to the castern cross-course; the lode has been productive for 16 or 18 fathoms in length, from which a considerable quantity of tin has been taken. There is now one pitch working in the back, near the eastern cross-course, in a good paying lode, but it appears there is not much ground left to come away. In the 28 east and west the productive part of the lode has been taken away on tribute, and from which good returns of tin have been made. A cross-cut north is being put out on the eastern cross-course in search of other lodes; the ground is exceedingly favourable, and from which good returns of tin have been made. A cross-cut north is being put to to not he eastern cross-course in search of other lodes; the ground is if found equal to the 36 and 48 the mine will pay well, and leave profits. I have re-ported to this effect before now, and hope to see it carried out at last.—T. GREGORY.

if found equal to the 36 and 48 the mine will pay well, and leave profits. I have reported to this effect before now, and hope to see it carried out at last.—T. Gingoorn.

Mr. Luccours draw attention to the fact that though, as represented in the Missing Journal, their company was divided into 5000 shares, there were, in reality, only 3138 aliotted, as the difference (1862 shares) stood in the names of the committee of management in trust fer the company. Therefore, if the market value of the shares were at 30s., the mine would then be selling for less than 5000i.

The Signaranx said that was an important point, as he considered those shares would prove to be a valuable asset.

A Sinalemolder enquired how it was that, with such a fine course of tin from the adit level to the 48, the operations at the mine had not been carried on by sinking the shaft? The Signaranx replied that when the shaft was sunk to the 48, several of the largest shareholders, who had become very much dissatisfied with the then bad management, threw up their shares, and an order was sent to the agent that the mine must pay its own cost, and that no further money would be sent down to develope it; consequently, for two years and a half the returns from above the 48 went to pay the costs for carrying on the concern; the shaft was not sunk nor ground opened. He had much pleasure in informing the shareholders that the proprietors of the adjoining proparty had kindly consented to grant to the present company the sett of Rix Hill, which could be developed from the levels in the United Mines; he considered that adjoining sett a very important and valuable acquisition to the property.

The report was unanimously received and adopted, and accounts passed and allowed. The Chainman stated that it had been seen by the financial statement just presented there was a debit balance of 1704. Their secretary (Mr. E. King) estimated that the cost for the coming four months would be something like 7804,, and the returns of tin would realise about 4004, so that

ENGLISH AND CANADIAN MINING COMPANY.

The third annual general meeting of shareholders was held at the offices, Broad-street suidings, on Monday,—Mr. ALEXANDER MORRISON in the chair.

The meeting was attended by shareholders possessing 1846 paid-up shares.
The balance-sheet, certified by the auditors, Messra, T. H. Gladstone and Henry Sewell, was exhibited, showing the following results:—
Freshold property, including purchase of estate and outlay of whatever nature in the colony with a view to its development. Feronal property, including plant, &c., at the mines, and cash in hand [4,559 17 6] (1934. Os. 5d.)

[1934. Os. 5d.) 4,569 9 9 9

a remaining with notice expenses	000	-	
Total	£42,944	6	10
Capital, 40,000%. (less unpaid calls, 575%.)	£39,425	0	-
Interest, discount, &c	- 76	16	1
Bills payable outstanding	1,870	0	0
Transfer of shares	7	- 1	٠.
Month's advance due to Bennetts		6	
Copper ore balance	1,205	0	-
Due to local committee of management	352	2	4

Total

Total

Total

Total

Total

Total

Total

Total

Total

The directors' report was also read; and, on the motion of the Charman, seconded by Mr. R. Pokyer, unanimonsly adopted. It expressed the regret of the directors that, not-withstanding the skill and energy with which operations had been carried on in Canada, they were still unable to declare a dividend. Nevertheless, whilst in 1859-9 only 1722, had been realised by the sale of ores, the amount had increased to 16594, in the past year, besides a parcel of 26 tons lying at Quebec, ready for shipment on the opening of the navigation, and a very considerable quantity at the mines for dressing in the spring. The orginal capital of the company having been all called for during the past year, and being now fully paid-up, the directors had some time since become aware that additional funds would be necessary to carry on the concern. Mr. Herbert Williams, their superintendent in Canada, had come over, at the invitation of the board, and had met the shareholders, giving them full explanations as to the present position and future prospects of the undertaking; and, the matter having been maturely considered, a unanimous vote of special meetings recently held had authorised the directors to raise a sum of 80000. to carry out the plans of their mining superintendent. The directors expressed their sincere hope that this sum would amply suffice to bring their operations to maturity.

The Chainman, in answer to an enquiry from Mr. Lindsay, explained that though they were authorised to raise 80000, only so much would be taken as should be absolutely necessary to bring their estates into profitable operation. He pointed out how large a portion of the capital had been expended in buildings, roads, plant, and dead works. He quoted letters from Mr. Williams, written since his return to Canada, expressing his continued condidence in the early fruition of their hopes. He added that the active spirit of mining enterprise in Canada, and the great encouragement offered by the

is en-

rected : to put should it, near r up to of tin. d up to of this he lode a very : The r avail-p to the h, from working there is tof the n made. r lodes; . You and extre good offitable. he mine forward dieen the eed more a agents dy mode pith, and

Section of the control of the contro

sively developed. The latest accounts were also encouraging, inasmuch as they informed proprietors of the important fact that the silver-lead ore contained a sufficient proportion of lead to enable them to employ it for the extraction of the aliver, so that they could adopt that process as well as that of amalgamation. The next important announcement was that the experiments in connection with the barrels had proved satisfactory. Although the Messra. Taylora could not be absolutely certain as to the result, they had the greatest confidence in the success of the experiments. They had accordingly selected a highly-educated metallurgies (Mr. Beeger), whom they had known for many years, for the purpose of conducting the process of amalgamation. It was, therefore, exceedingly satisfactory to find that their ores were capable of treatment by that process, which, there could be no doubt, was the best extant. To conduct that process with success, however, two things were essential—a cheap motive-power and a large quantity of fine for the calcination of the ores. For want of a cheap power that process in some parts of Mexico was impracticable; but at their works, even at the direst seasons, they had ample power to drive the whole of their machinery; and as regarded wood, he might, without exaggeration, state they had a superaburdant supply of that very necessary material, so that they possessed two very considerable elements of success.

The report and accounts were then unanimously adopted, when Messrs. C. Morris and J. Macdonnell, the retiring directors, were re-elected; and Messrs. R. Henty and E. J. Bunny were appointed auditors.

A vote of thanks to the Chairman and directors was passed.

Mr. Huxaw said that he had another resolution to submit, to which he was certain every proprietion would respond. It was a vote of thanks to Mr. Phillips, their secretary, for the very efficient services rendered to the company.

Mr. Wax had much pleasure in seconding the essolution, which was put and ear-ried unanimously.

Mr. What had much pleasure in seconding the resolution, which we get duantimously.

The SECRETARY, in acknowledging the compliment, sincerely thanked the shareholders or the vote of thanks accorded to him. He had always endeavoured to do his duty to he company, and it was satisfactory to him to know that his endeavours had met with he approval of the proprietary. From the commencement he had taken the greatest increst in the undertaking, and it was, therefore, satisfactory to find that the hopes which had from the first entertained were apparently about to be realised.

Mr. What proposed a vote of thanks to the Messrs. Taylor, the managers. He had had experience of their excellent management in several other concerns, and he had the greatest advance in their online.

experience of their excellent management in several other concerns, and he had the greatest confidence in their opinion.

Mr. Humby had much pleasure in seconding the proposition, which was put and carried. Mr. John Tatlon, jun., having acknowledged the compliment, said that he thought they might look forward to the realisation of something substantial for the capital invested. He thought the regular features of the veins of ore in that district gave them chances of a considerable amount of profit upon a comparatively moderate amount of outlay.—The proceedings then terminated.

SALES OF MINING PROPERTY BY PUBLIC AUCTION.

SALES OF MINING PROPERTY BY PUBLIC AUCTION.

This mode of disposing of an interest in mining property, whether the same consist of the mine and its machinery, or a small number of shares in a working concern, has become one of the institutions of the Mining Market; at the same time being, we are glad to say, free from many of the objectionable phases that too often accompany that popular feature of our transatiantic cousins. Mr. T. P. Thomas has now for some time past had recourse to this step, and we are glad to notice meets each time with increasing success. It is hardly necessary for us to point out the advantages that in many instances accrue to the out-adventurer by placing his interest in the auctioners' hands, for it necessarily follows that the sale is attended by most of the mining capitalists and brokers, and, according to the quality of the stock offered, not only in a market sense, are the biddings and sales guided. On Thursday last Mr. Thomas held a public auction at Garraway's Coffee House, at which he submitted Catherine and Jane Mine, with the whole of the machinery, consisting of steam-engine, water-wheel, dressing-floors, &c. This mine has been worked for some time under the London management of Mr. J. W. Dunsford, and for a considerable period held out good prospects of success, but from the inability or un-willingness of several of the propertors to pay up their proportion of the cost, the mine has been stopped, and offered for sale in one lot. It was bought in for 1000L, it being, we believe, the intention to form another company to more fully develope the property. Another sett was offered, the Fron Isa Lead Mine, Mold, Flint, with the whole of the machinery, &c. : it was knocked down at the reserved price.

A number of mine shares were then offered, of which the following were sold:—149 Wheal Norris at 29s.; 3 loid Tolgus United at 104, 2 ditto at 29s.; 10 Kine at 114, 1 ditto at 124; 1; 11 West Providence at 50; 20 ditto at 50; 30 ditto at 50; 30 ditto at 50; 30 ditto at 50; 30 ditto at

MINE SHARE DEALING—CHARGE OF CONSPIRACY.—At the Leeds Town Hall, on Tuesday, a charge was preferred against Mr. Paul Raby, jun., and his cierk, Timothy Smith, for conspiracy to defraud Mr. Matthew Outhwaite of various sums of money, amounting to upwards of 6001, the said moneys being obtained by false pretences from the prosecutor. It appears that the prosecutor joined with Mr. Raby in the purchase and re-saie of shares in East Releath and South Wheal Leisure. The prosecutor made profits of 201, and 751, respectively, but contends that he is now 6471, out of pocket through "false representations." There was another charge against Mr. Raby for obtaining a bill of exchange for 1001. from Mr. Francis Hunt, and it was intimated that there would be other charges also. The case was adjourned to May 13, the prisoners offering balt, themselves in 3001, and two sureties in 1501.—[This matter is referred to in our City Article.]

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

ALFRED CONSOLS.—S. Uren, T. Hosking, May 1: Davey's engine-shaft, sinking below the 180, is without change. The 180, driving east of said shaft, on the main leds, is producing stones of ore. The lode in the 180, entropy east of the above shaft, is 3½ ft. wide, unproductive. The lode in the 180, entropy east of the above shaft, is 3½ ft. wide, worth 181, per fathom. The lode in the 120, driving east of the above shaft, is 3 ft. wide, worth 31, per fathom. Robert's stope, in back of the 180, is worth 121, per fm. Floyd's stopemen are preparing to sink the winzein bottom of the 130. Rodda's men are about to commence a rise in back of the 120 to prove the ground between this and the 130 above. James's rise, in back of the 120, produces stones of ore, but not to value. No other change to notice for the past week.

rise, in back of the 120, produces stones of ore, but not to value. No other change to notice for the past week.

BALLYVIRGIN.—T. De la Hunty, April 25: South Stope: This stope was partly resumed during the last week, but in consequence of wishing to get all the good-paying stuff from the arch to surface, the progress with the trial was not so great as it etherwise would have been; it is yielding a large lode of plain mundle, and still inclined to dip to the south; greater progress will be made this coming week. All the arch of ground over the 10 will be at grass by Saturday night; it has produced a fair supply of ore to the last.—Dressing Department: We have dressed and put to pile 1 ton of first crop lead, 1 ton of second crop lead, ½ ton of first crop copper, 3 tons of coppery mundle, 10 tons of plain mundle, and prepared for the crusher 2 tons of lead ors. We have shipped per Decosport, for Garston, 50 tons of coppery mundle and 55 tons of plain mundle.

BEDFORD CONSOLS.—Capt. Mitchell, May 2: No lode has been taken down in the middle add level, on the No. 1 south lode, since my report for the meeting. The ground by the side of the lode is easier for driving. I have suspended the driving on the No. 2 south lode for the time, and have put the men to continue the cross-cut south.

BEDFORD UNITED.—J. Phillips, April 30: No alteration has taken place in any of the ends throughout the mine during the past week. The stopes in the back of the 103, 90, and 58 continue to yield as last reported.

BENEATHWOOD.—J. Lean, May 2: We have completed the plat at the 40, and commenced driving north and south on the western lode, which presents promising appearances, but shall be able to say more of its character when further developed. The lode in the 50 south is mixed with quartz, mundic, and a little lead, rather undefined by the effects of an intersecting course. The men will clear and secure the 20 winze by to-morrow morning, and also the 30 fm. level north in two or three days; we shall then stope the back, where we exp

jode in the 30 south is mixed with quartz, mundic, and a little lead, rather undefined by the effects of an intersecting course. The men will clear and secure the 20 winze by to-morrow morning, and also the 30 fm. level north in two or three days; we shall then stope the back, where we expect to raise some tons of good ore.

BRONFLOYD.—J. Lester, May 2: The engine-shaft is down 17½ fms. below new adit. We have eight men now driving a cross-cut from the western end of the 13, below adit of No. 4 lode, to cut No. 1 lode; the distance will be about 15 fms.; the ground at present is hard, and will be so until they get clear of No. 4 lode; this cross-cut will intersect several promising branches or intermediate lodes before it reaches No. 1, these we passed through in driving up the new adit, when we got some good stones of ore coasionally, of which we sent you a sample at the time; this will be 15 fms. deeper and 25 fms. below where we are getting the good ore from this new lode—in the 17, west of cross-cut, here the level west is extended 10 fms.; the lode for that distance being mixed throughout with lead, and about 3 fms. of it is worth nearly 1 ton per fm. The last two have not been so good, but the ground has changed for the better, and much more easy to drive, and the price is reduced from 7 to 37. 18s. The forebreast is yielding a strong mixture of blue and white ore, sirely not be sample in the sample of the proper structure of the sample of the proper structure of the sample of the proper structure of the sample of the sample

our south lode is still to the south of the cross-cut. We intend to drive this cross-cut by three men and three boys, and to drive the 25 west of the cross-cut, and to see where he branches come together. The sumpmen are cutting down the shaft as fast as posible, and hope to have it completed to the 18 this month. No change in any other art of the mino sluce last week.

sible, and hope to have it completed to the 18 this month. No change in any other part of the mine since last week.

COLLACOMEE.—S. Mitchell, May 1: During the last month the old engine-shaft has been sunk 1 im. The 96 west has been driven 5 fms. 3 ft., and the lode continues without alteration; the winze in the bottom of this level has been sunk 4 fms. making altogether 5 fms. 4 ft. below the level, and the lode is worth for the whole depth 3 tons of good copper ore per fm: 30 fathous have been cleared and secured in the 62, east of Morris's shaft. There is no alteration in any other part of the mine worthy of notice. The following bargaios were set on Saturday:—The old engine-shaft to sink at 12!, per fathom; the 96 to drive west, at 4!, per fm.; the 60 cross-cut to drive north, at 4!, per fm.; the 25 to drive ast, at 23!, per fm.

CORNUBIA TIN.—Wm. H. Gray, April 30: Except in respect to the engine we are almost in working condition, but as the nozzles are not delivered it will be impossible for us to move by the pay-day. To get thus far, however, great perseverance has been necessary on the part of the workmen and others on the spot, all of whom appear to share the full conviction that this will make a standard mine for that which has hitherto been a neglected district, thus affording employment to a population in want of a concern making regular returns rather than the investment of money for market purposes or of limited duration, so as only to prejudice future attempts. We have the best prospects before us, and the improving state of the tin market encourage still further to an effective realisation of the objects set out for, and upon the proper execution of which our hopes of success will very much depend. Relying on the opinions of those who know the old shaft, I think we shall get down to the 40 cheaply and rapidly, and then if we have power to keep drawing the stuff from the several levels at and above this point, it will not be long before now ground will be reached, and such stretch made upon the

well to confine our attention to the main feature first, and all the others will follow in regular succession.

CRANE.—H. Skewis, April 25: Since the last meeting the 70-in. cylinder engine has been erected, the house water-lift fixed, the main-rods completed to the adit level, and 10 fms. of 15-in. pitwork sent down below the adit. The engine was set to work last evening at 4 o'clock, and the water is now forked 8 fms. below the adit; in eight or ten days more we expect to see the 20, when, if the information given be correct, our or five pitches will be set on tribute, and by the next account we hope to see the bottom of the mine. The engineers have begun to put in the steam-capstan, which we expect will be ready in four weeks from this time, and while they are about this engine the shaftmen will put in the skip-road, and case and divide the shaft to the 20. The cross-cut south of Bojawas shaft is driven 25 fms., and from the dialling there are 12 fms. more to cut the caunter lode. If the ground continue as it is, we expect tout it is lode in two months, and, from the appearance of the ground, we are daily expecting to cut a branch. If the statements given be true, when this mine is in fork to the bottom, levels cleared, &c., we may expect to sample about 20 tons of copper or per month, worth about 101, per ton.

— H. Skewis, May 2: We have cut the branch in the south cross-cut addt referred to in my report of April 25 I toot; we are not yet through it. We have several fathoms to drive to cut the caunter lode. The steam-whim is getting on fast; the loading for the capstan will be completed on Saturday.

CROWLWM.—J. Roach, May 2: In the adit level west, on course of the lode, we have some pleces of lead, and frequently lead intermixed in the fissures, but not yet good enough to value; the lode here is similar in every respect to the lode in the 10 cast at Bryntali.

UUDDRA.—J. Webb, May 2: The engine-shaft is sunk 3 fms. 1 ft. below the 90, and

enough to value; the lode here is similar in every respect to the lode in the 10 cast at Bryntall.

CUDDRA.—J. Webb, May 2: The engine-shaft is sunk 3 ims. 1 ft. below the 90, and the pumps fixed; the part of the lode we are carrying is 3 ft. wide, 2 ft. of which is soft white spar, mixed with black copper ore and mundic; the other, nearly 1 ft., is a good lode of black and grey copper ore; the last 3 ft. have very much improved. The copper stopes in back of the 80 and 90 are yielding a fair quantity of copper ore. We have commenced dressing a new parcel of better priced ore than what is now offered for sale. The 60 west, tofreach the tin ground, is favourable for driving, in a large gossan; these men will drive 10 fms. this month. In the 46, penling out under the tin lode, I reported before that we shall not be ready to take down the lode in this level for some weeks. The 30 is being driven west in easy ground, at 31, per fm. The stopennen behind the 30 end are cutting out ground under the lode; the lode is now cut through from wall to wall 12 ms. long, and will now come down very speedy. So far as we have proved the lode here it is worth about 1 cwt. of tin per 100 sacks, and, being 6 ft. wide, will come very apeedy; it must all pass through the stamps. In the 20 end west we have easy ground, driving in the killias under the lode, at 55s, per fm.; behind this end we have a party cutting out under the lode. The 10 is very favourable for driving west under the lode; we have taken down a large piece of the lode, 5 ft. wide, in the back of this level, and have got it cut through from wall to wall; it is now in a good position to be raised in large quantities at easy cost. So far as we have proved the tin lode it improves as wextend, which are being hastened on as fast as possible in that direction.

CUMBERLAND BLACK LEAD,—J. Dixon, April 26: We commenced this week cross-cutting from a lower stage, khoyden's, to intersect the waddy pipe where we are now sinking; this will be much less expensive. Thompson's pipe is

sinking; this will be much less expensive. Thompson's spipe is enlarged, and I expect it will produce a larger quantity of wad and finer in quality.

CWM ERFIN.—April 30: The lode in the 45, going west of engine-shaft, is 3 fect wide, of clay-slate, quartz, copper ore, and lead ore disseminated throughout—a very strong, kindly lode; the lode in the same level, going east of boundary, is 4 feet wide, worth from ½ ton to 1 ton of lead ore per fathom. A new stope has been set over the back of this level about 190 fathoms east of the cross-cut, and yields 15 cwt. of lead ore per fathom; the lode in stopes over back of the same level, 35 fathoms east of cross-cut, continue to yield ½ ton to 1 ton of lead ore per finth in the 32, going east of boundary, yields 1 ton per fin. I the lode in the 32, going east of boundary, yields 1 ton per fin. I the lode in the stopes over back of this level, 90 fathoms east of cross-cut, yields 12 cwts. of ore per fathom; the lode in the stopes over back of same level, 80 fms. east of cross-cut, yields 16 cwts. of ore per fin. The lode in the 20, going east of boundary, better the content of the stopes over back of the lode in the stopes over back of this level, 90 fathoms east of cross-cut, yields 15 cwts. of ore per fin. The lode in the 20, going enat of cross-cut, yields 1½ ton of ore per fin. I the lode in the stopes over back of the same level, 80 fathoms east of cross-cut, yields 2 tons of ore per finhom; the stopes in back of the same level, 80 fathoms east of cross-cut, is now at the required height for the 10. The men are now clearing their stuff and putting in timber for carrying the road. The lode in the stopes over back of the 20, about 20 fms. east of cross-cut, is 2 yards wide, and will turn out 8 cwts. to 10 cwts. of lead ore per fathom. No alteration in any other part of the mine to notice.

DEYON NEW COPPER.—P. Hawke, May 1: In sinking the engine-shaft below the

of lead ore per fathom. No alteration in any other part of the mine to notice.

DEVON NEW COPPER.—P. Hawke, May 1: In sinking the engine-shaft below the 18 fm. level the lode takes a more vertical dip. We hope to rench the 78 in four weeks, when the cross-cut into the lode will be speedly commenced. In the cross-cut into the reach of the control lode, at the 68, we have met with a leader of mundic at the remotest part of he cutting, about 15 in. wide, that contains very pretty quartz and rich spots of yellow opper ore: as regards indications nothing can excel it. The cross-cut into the great north lode east, at the 68, comprises spar, prian, and mundic. We have not succeeded n letting this bargain since last Saturday, when the setting price was ebjected to, but lose it will be contracted for shortly. The proceedings in every other department are often on well.

going on well.

DULTA.—J. Martyn, May 1: We are getting on fast with the cross-cut to Dyer's lode, and have beautiful ground. From the favourable indications we have every reason to believe this will prove to be a good tin lode. We are clearing up the south shaft, on Batt's lode, where we had some capital work, worth from 3 to 4 cwts. of tin per 100 sacks. This shaft is for the purposes of ventilation and proving the lode. We shall sell another parcel of tributers' tin on Friday. We are in daily expectation of a great improvement in the mine.

In the mine.

DYFRGWM.—E. Davies, April 30: We have gone on wonderfully well during the past month, considering that it has been dry and frosty at nights nearly throughout. The best criterion of the mine is the ore dressed. During the four weeks we have got in upwards of 40 tons. We have during the last three months been dressing between 10 and 11 tons a week. We shipped per quarrymaid, yesterday, about 36 tons, the bill of lading for which will be with you the same post as this. We have 6 or 7 tons left for more work when fresh water comes.

more work when fresh water comes.

EAST ALFRED CONSOLS.—H. Skewes, May 1: The cross-cut at the 70 is driven south 10 fms.; ground favourable. The south lode in the western end at the 50 is from 2 to 3 ft. wide, worth for copper 20!, per fm. The lode in the rise in back of this level is looking better, worth 10!, per fm. No other change to notice in any part of the mine

noe last report.

EAST CARN BREA.—Thos. Glanville, May 1: We had an accident this morning, awing lost the bottom clack of the new plunger-lift under water; we are now preparing of trop a side lift to fork the water. There is nothing new in the levels to report on this case. Ore sampled from the south lode on April 24, and assayed on the 26—56 tons,

produce 734.

EAST DEVON GREAT CONSOLS.—T. Richards, April 30: The lode in the 40 west still continues to produce good stones of copper ore, a large promising lode, and in good ground for driving. The sinking of the engine-shaft progresses favourably.

EAST GUNNIS LAKE AND SOUTH BEDFORD.—J. Phillips, May 2: The lode in the 36 east is 2 ft. wide, and worth 3 tons of ore per fm. We are happy to say that the lode in the winse and stopes never looked better than at the present moment. The ground in the cross-cut south continues much the same. We are still driving by the side of the lode in the 24 east. The lode in the deep add tevel is 3 feet wide, composed of mundic, peach, and good stones of ore. Gard's shaft is squared down within 6 feet of the back of the addit level; the lode in which continues much the same as last reported.

EAST PERVIDENCE.—T Uren. April 20: The ground in the new shaft sinking be.

the shaft, previous to the discovery, and which we are of the opinion is going over a good run of cavy ground; it is worth about 51, per fm. for the, but we can hardly value it for opper, although the appearance are of a high order.

the shaft, previous to the discovery, and which we are of the opinion is going over a good run of orey ground; it is worth about 51, per fm. for tin, but we can hardly value it for copper, although the appearances are of a high order.

EAST WHEAL RUSSELL.—J. Goldsworthy, May 1: Homersham's Shaft; In the cross-cut in the 110 cast, driving north, the ground is favourable for progress. In the 100 cast the lode in the south part is 3 ft. wide, cappe, peach, and mundic_lamproductive. In the 100, cast and west of Davis's cross-cut, on the north part of the lode, the lode is 2 ft. wide, composed of caple, peach, prian, with stones of green carbonate of copper ore, on sufficient of the latter to value. In the stopes in back of the 100, west of Oats's No. 1 winze, a part of the lode has been taken down, which is worth 141, per fathom; the stopes in back of the 100, west of Oats's No. 1 winze the lode has been taken down, which is worth 141, per fathom; the stopes in back of the 100, cast and west of Oats's No. 2 winze, are worth 91, per fathom. The stope in bottom of the 88, west of Benney's winze, on the north part of the lode, is worth 201, per fm.; the stope in back of the 88, on the north part of the lode, is worth 201, per fm. The lode in the 88 cast is 4 ft. wide, composed of prian, peach, mundic, and good stones of ore. The lode in the rise in back of the 66 is large, and producing rich stones of yellow copper ore.

— J. Richards, May 2: Homersham's Shaft: In the 110-cross-cut north the ground is favourable for progress, 3½ fms. having been already driven. In the 100 cast, on the south part of the lode, the lode is 3 ft. wide, and consists of quartz, mundic, and peach. In the 100 cast, and east of Davey's cross-cut, on the north part of the lode, the lode is worth 121, per fathom. In the stope in back of the 100, cast and west of Oats's No. 2 winze, the lode is worth 124 ton 100, ast and west of Oats's No. 2 winze, the lode is worth 125 ton 100, ast and west of Oats's No. 2 winze, the lode is worth 126 ton 6 cape

mine worthy of remark.

FURSDON.—J. Hampton, J. P. Daw, April 30: The ground in the 21 west is more favourable, and the end is producing stones of ore. The 11 east is locking a little better, there being more ore in it. Barrett's stopes are finished, and we have put the four men to sink a winze in the bottom of the adit over the 11 east. The cross-cut driving south in the 11 west is still in the lode, which is all saying work; the same remark applies to the silde now being taken down in this level.

GARDEN MINE.—N. White, May 1: We have set the 12 to drive north of the engine-shaft by two men, at 40s, per fm., and south by two men, at 35s. per fm.; the lode has a very kindly appearance. Thomas's lode, at the adit level, is driving by four men, at 61. 10s. per fm., and is worth 161. per fm. The shaftmen are at present engaged putting in skip-road, and preparing to resume slaking. We are making very satisfactory progress in erecting the engine, and expect to get it to work in about three weeks.

GAREG.—W. Sandoe, May 1: The lode in the 20, west of engine-shaft, is 2 ft. wide, composed of clay, calamine, &c., with a mixture of lead ore, and is likely to improve. In the 20, going north from engine-shaft, towards the old lode, there is a change in the ground lately, from which I calculate we are not far from the lode; this, however, will be proved in a very short time. In the new shaft sinking below the 15 there is no change worthy of notice since my last report. The sinking, &c., progresses satisfactorily.

worthy of notice since my last report. The sinking, &c., progresses satisfactority.

GAWTON COPPER.—G. Rowe, April 27: Our present prospects in the 36 west are of a cheering description; the lode is 4 ft. wide, composed of quartz, prian, and mundic, with good quality yellow copper to the amount of 1 ton per fm., and showing every indication of improvement. The stopes in bottom of the same are worth 2 tons per fm. The stope in back of the 50 is worth 2½ tons of ore per fm. The lode in the stopes in back of the 24 is not looking quite so well, worth 1½ per fm. We sampled yesterday March and April ores, computed 419 tons, and on the 24th inst. sold and shipped 24 tons of mundic to Messrs. Morewoods, of Plymouth.

GEDNICW.—Cont. Carbot. May 2. Spaces and specific graying-shaft is now sunk to the 30:

back of the 24 is not looking quite so well, worth 1½ per fm. We sampled yesicrday March and April ores, computed 419 tons, and on the 24th inst. sold and shipped 24 tons of mundic to Messrs. Morewoods, of Plymouth.

GERNICK.—Capt. Carkeck, May 2: Spencer's engine-shaft is now sunk to the 30; we shall this week sink about 3 feet for fork, and immediately commence driving on the course of the lode in this level. The lode in the bottom and eads of the shaft, where we shall commence driving, is from 2½ to 3 feet wide, composed of quartz, and containing large quantities of mundic, a very promising lode for copper ore, though not to value for that mineral at present: a large extent of ground can be opened on this lode for a small amount of money, and I have no doubt good results will be realised. There is nothing new discovered in the cross-cut north of the 20 since my last report.

GLAN-Y-PWLL SLATE.—M. Roberts, May 2: I have this day visited your quarry, and am glad to say the rock has improved within the last fortright more than since the commencement of operations, and there is no doubt of its continuance. This is the opinion of several practical quarrymen who have visited the quarry this week. I have gone over the ground with Richard Owen to fix upon the best place for the erection of the unachinery that will be necessary for the sawing and planing of the slabs; also to fix upon the best place for the erection of the unachinery that will be necessary for the sawing and planing of the slabs; also to fix upon the best place for the erection of shaft, we have just intersected a large spar course, carrying mundic, underlying north of shaft, we have just intersected a large spar course, carrying mundic, underlying north of shaft, we have just intersected a large spar course, carrying mundic, underlying north of shaft, we have just intersected a large spar course, carrying mundic, underlying north of shaft, we have just intersected a large spar course, carrying mundic, underlying north of shaft, bend in wet and troub

a little ore, but only a few feet east and west of the shaft. The ground in the 90 crosscut is without much alteration.

GREAT NORTH TOLGUS.—J. Dale, May 1: The lode in Wheal Mary shaft, recently cut, is upwards of 18 in. wide, composed of blende, spots of lead, and rich copper
ore, the appearance of which altogether is such as any miner would pronounce of great
promise. Every fathom we sink it is improving. In the course of another week I hope
to be able to report something still better, and will forward every particular.

GREAT ONSLOW CONSOLS.—G. Rickard, April 30: There has been no lode taken
down in the 122 west for the past week. The ground in the 122 east has improved.

The lode in the 107 cast is of very nearly the same character as for some time past.

GREAT RETALLACK.—W. H. Reynolds, April 27: The state of the mine for blende
is much the same as last reported. At the 35 we have a leader of quartz 10 or 12 in.
wide, with spots of lead in it, and as it is enlarging in going down we hope it may lead
to something better. We expect now to make good progress in sinking below the 35,
and at present are only paying 31. 10s. per fm.

GREAT SOUTH TOLGUS.—J. Daw, May 1: The lode in the 112, west of Lyle's
shaft, is 2 ft. wide, producing 2 mone good copper ore. In the vise in the back of the 100
west the lode is 1½ foot wide, producing 1 ton of ore per fm. The lode in the 40 west
is 2 ft wide, producing 1 ton of ore per fm. The lode in the 40 west
is 2 ft wide, producing 1 ton of ore per fm. The lode in the 40 west
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is 2 ft wide, producing 1 ton of ore per fm. The lode in the 40 west

GREAT TREGUNE CONSOLS.—J. Spargo, May 2: I have been this day under round, and beg to say the lode in the 80 end, driving west of Hobier's shaft, is still or very flattering nature; the lode is producing good saving work for copper, and havery appearance of a greater improvement in a short distance driving, at which point there of the south branches will intersect the lode, and I hope then a good course of or will be discovered.

will be discovered.

GREAT WEST SETON.—H. Cowling, May 2: I have employed the men this week to break some of the mundle from the bottom of the adit level; the lode is 3 ft, wide, and will pay well for working. I fancy, too, there is some silver in the lode, and it improves in appearance as we get down. I have measured the length and breadth of the sett, as requested—length, 640 fathoms; breadth, 450 fathoms. I have also measured the distance of the lodes seen in the adit level—the nearest to the main lode is 24 fms. north; the mainlode underlies north 20 in. in a fathom, and the next to about 1½ foot in a fathom; south it is about 2 feet wide; this, as the other two, is composed of a great deal of prian, some gossan, and spar. No. 2 lode, from the main lode, is distant from No. 1 lode 60 fathoms, and underlies 2 feet south in a fathom. No. 3 is 2 fathoms; this underlies south too, and like the last two are one lode, only split by a horse of killast. The whole of the lodes are available by the shafts already sunk, and it is likely that we shall make good profits out of the mundic till we get down on the copper.

GREAT WHEAL ALFRED.—W. Bugelhole, J. Delbridge, May I: There is no ap-

side of the lote in the 24 cast. The tode in the deep and it level is 3 few wide, composed of munic, peach, and good atones of ore. Gard's shaft is squared down within 6 feet of the back of the adit level; the lode in which continues much the same as last reported.

EAST PROVIDENCE.—T. Uren, April 30: The ground in the new shaft sinking below the surface is a little more favourable for exploring, and we expect to effect a communication with the rise in the back of the adit in about four or five weeks. We have commenced to clear up some oil workings in the grantic range at the southern part of the set. We shall state more particulars about this point in the next report.

EAST ROSEWARNE—J. James, April 27: More water is issuing from the 55 cross-cut than usual, and the ground a little improved for driving. In the 48 cast the lode is 1 for the lode, and worth towards the bottom of this level; about 151, pr fm., but not signed to the lode is 1 for the lode, and worth towards the bottom of the level; about 151, pr fm., but not signed to the lode is 1 for the lode in the 20 state of the cross-cut, north of the lade's releasing further spart in going west. The 33 is without change to notice. King's shaft of the lode is 1 for the lode in the 20 state of the cross-cut, north of the lade's releasing further spart in going west. The 33 is without change to notice. They say the lode is 1 for the lode in the 20 state of the cross-cut, north of the lade's releasing further spart in going west. The 33 is without change to notice. The lode in the 20 state of the cross-cut, north of shall say arounably. There is no task of the cross-cut, north of shall say arounably. There is no task of the cross-cut, north of shall say arounably. There is no task of the cross-cut, north of shall say arounably. There is no task of the cross-cut, north of shall say arounably. There is no task of the cross-cut, north of said shalt are progressing freely sourced of the wine, in bottom of the lade, and the say arounably. There is no task of the cro

a', fortnight, when we shall be in a good position to sink the shaft below, as the greatest portion of the water is coming out of the 142. All our machinery is working very well. Our stopes in the 132 are looking much the same as last reported.

GROSVENOR.—B. Lloyd: The 40 yard level west produces good stones of lead ore. In the sump in the 65 yard level west we are on a bar of hard ground, and it will be necessary to sink through this to the 55 yard level, for the purpose of getting a current of air to ventilate the mine. The roof in the 65 yard level test is producing good dressing stuff. In the 65 yard level east we are getting a few stones of ore. The lode in the 85 yard level is 3 ft. wide, and rise of limestone 6 in. thick appear in the brown shale. I have put two men to work in an old shaft on the New Rake velin, where there is a good lode to be seen 3. It. wide, and a few spots of ore appear in the spar.

GWYDYE PARK CONSOLS.—Captain W. Smyth, May 2: There has been no lode taken down in the deep adit this week. I have set to the men to drive 2 fathoms, at 81. 5s. per fm., the ground being much improved since last setting.

HARWOOD.—J. Race, April 26: The cross-cut is set to two men, at 80s. per fathom.

taken down in the deep sdit this week. I have set to the men to drive 2 fathoms, at 81. 5s, per fm., the ground being much improved since last setting.

HARWOOD.—J. Race, April 26: The cross-cut is set to two men, at 80s. per fathom. The string we are driving in is beading a little to the south, and we have cut a small string or branch this week; these are indications, I think, that we were very near the vein. I think we are likely soon to make some discovery in the higher ground at Trough.

I think we are likely soon to make some discovery in the higher ground at Trough.

HAWKMOOR.—J. Blachards, J. T. Phillips, April 30: The lode in the 80 west is from 2 to 3 ft. wide, composed of capal, quartz, mundic, and stones of copper ore. In the 70 west the lode is from 2 to 3 ft. wide, composed of quartz and mundic principally. In the 50 east the lode is worth 1 ton of copper ore per fathom. In the 60 east the lode is strom 1 to 3 ft. wide, own of copper ore per fathom. The lode in the pitch in back of the 30 is worth 3 tons of copper ore per fathom. The lode in the pitch in back of the 30 is worth 3 tons of copper ore per fathom. In the all level west, at West Hawkmoor, on No. 2 lode, the lode is small, but of a very promising appearance. We sampled on April 26 (computed), 81 tons of copper ore per fathom. The stopes in the stone of the 30 tons of ore per fathom. The 55 west will yield 7 tons of ore per fathom. The 75 east will produce 5 tons of ore per fathom. The 50 west will yield 7 tons of ore per fathom. The 50 east will produce 5 tons per fathom. The stopes in the bottom of the 100 will yield 5 tons of ore per fathom. The above in the bottom of the 100 will yield 5 tons of ore per fathom. The stopes in the bottom of the 100 will yield 5 tons of ore fathom. The stopes in the bottom of the 100 will yield 5 tons of ore fathom. The stopes in the bottom of the 100 will yield 5 tons of ore fathom. The stopes in the bottom of the 100 will yield 5 tons of ore fathom. The stopes in the bottom of the 100 will yield 5 tons

elow the 25 the lode is of the same size and character as last reported; there is no change

below the 25 the lode is of the same size and character as last reported; there is no change in the 25 east this week.

KELLY BRAY.—8. James, April 27: The lode in the 125 west is 1½ ft. wide, composed of quartz, mundic, and stones of ore. The lode in the 75 east is 2½ ft. wide, yielding good stones of ore, and likely to improve as we proceed eastward over the productive ground we have in the back of the 85 east, about 2 fms. ahead of the above-named end. There is no change to notice in the tribute department during the past week.—Eastern Mine: In the 70 cross-cut north we think the end is in the capels of the lode, as the ground is very hard, and mixed with branches containing mundic and copper ore. The lode in the 60 east is about 1½ ft. wide, composed of quartz, mundic, and rich stones of copper ore, carrying well-defined walls, with a favourable underlie, about 1½ ft. in a fathom, and the ground is of a congenial character, such ore as is generally found in this district. Rich bunches of ore have been met with in the bottom of the above level, in the last 15 fms, some of which we have drawn to surface. It has been inspected by practical mine agents, and they all fail in with my views as to the eastern mine making a productive and a lasting one when properly developed; looking at the ore we have discovered at the 70, it looks well for that level. We weighed off on the 26th inst. 101 tons 2 cwts. 2 qm, of ore for March, and sampled for April (computed) 88 tons. We have on the quay, ready for shipment, from 60 to 70 tons of mundic, which we are daily expecting to send off.

2 cwts. 2 qrs. of ore for March, and sampled for April (computed) 88 tons. We have on the quay, ready for shipment, from 69 to 70 tons of mundic, which we are daily expecting to send off.

LADY BERTHA.—Capts. Harpur and Metherell, April 27: This being our pay and setting-day, the different bargains were re-let. We have no change to report in either the east or west ends at the 53. In the 41 east the lode has a very encouraging appearance, composed of quartz, peach, mundic, and stones of ore. The stopes in back of the 41 west are composed of ore and mundic, worth of the former 201, per fm. The lode in the 30 east continues to look well, being from 3 to 4 ft. wide, composed of mundic, peach, and ore, worth of the latter quite 301, per fm. The lode in the stopes in bottom of this level is large, consisting of mundic and ore, worth of the latter about 401, per fathem. Crossman's winze, in bottom of the 20 east, is from 5 to 6 fms. deep, where the lode has a favourable appearance, composed of peach, mundic, and ore, worth 2 tons, or 121, per fathom. The tribute department is without any particular change.

— Capts Harpur and Metherell, May 2: We have no change to inform you in either of the ends at the 53. In the 41 east no lode taken down since last report, but intend cutting through it shority. The stopes in the back of the 41 west are looking well; the lode being about 3½ ft. wide, consisting of ore and mundic, worth 6 tons of the former, or 481, per fm. In the 30 east the lode is over 4 ft. wide, composed of peach, mundic, and ore, worth of the latter from 6 to 7 tons, or 401, per fm. The lode in the stopes in the bottom of the 30 is large, over 6 ft. wide, composed of mundic and ore, worth of the latter 12 tons, or 501, per fm. The tribute pitches are opening out pretty well; on the whole, the mine is looking encouraging.

LADY, ELIZA.—J. Evans, May 2: The air-ways are progressing very favourably,

peach, mundic, and ore, worth of the latter 2 tons, or 101, per fin. The tribute pitches are opening out pretty well; on the whole, the mine is looking encouraging.

LADY ELIZA.—J. Evans, May 2: The air-ways are progressing very favourably, both in the sinking and upward driving; fine ores are discovered, but not in great quantities. I hope that I shall be able to report the completion of this job in a few weeks Then, let me have a double number of hands, I beg to state that it will be in my power to relieve the minds of the shareholders from all doubts and apprehensions as regards the success of the undertaking.

LELANT CONSOLS.—J. Williams, April 29: Since my last report, which accompanied the statement of our last account, we have sunk the flat-rod shaft on the new south lode, and are now down 20 fins. from surface; the lode is 4 ft. wide, yielding a great deal of water, and is tinny throughout. The work is of low quality, but we are stamping about one-third of the stuff we raise from the shaft. I consider the lode and ground is getting a little more settled, and I hope when we are down 10 fms. deeper the lode will be more productive. In addition to the above, we have extended levels cast and west, 16 fms. each way. From these levels, together with the shaft, we have raised the principal part of our tin, and the ends are looking much the same as when I last reported. In the back of these levels we have 40 fms. of high ground, which we shall be able to stope when the ground is sufficiently drained. On the north lode we are stopling the back and bottom of the above level, from which we are raising tin about sufficient to pay the cost of stoping.

MAUDLIN.—W. Tregay, J. Tregay, April 27: The lode in the 50 west is 3 ft. wide, very promising, well defined, and letting out much water; from this and other indications we expect to find it continuing west through the greenstone, which would materially improve our prospects, inasmuch as the ground there is a bendit of the proving a continuance of the lode, each earti

MestLifty.—W. Sandoe, May 1: The note to the whole producing stones of ore. The present dry weather is very severely affecting our supply of water to the wheel.

MERLIFYN.—W. Sandoe, May 1: The new shaft sinking below the adit level is down about 3 ft.: the ground here is a beautiful light-coloured limestone, both favourable for sinking and congenial for lead ore, and I have every reason to believe that this lode will open well in the next level. In the 20, east from new shaft, the lode at present is unproductive, but from the kindly appearance of the ground, &c., I think a favourable for sinking and congenial for lead ore, and I have every reason to believe that this lode will open well in the next level. In the 20, east from new shaft, the lode at present is unproductive, but from the kindly appearance of the ground, &c., I think a favourable change may be soon expected, and believe that when the north and south lode is reached, which forms a junction with this 14 to 15 fms, further east, we can scarcely fail to be success-cut for a short time, and bring the men here, in order to work the full time, and to prove this point as quick as possible. The stope in bottom of the 16, south of black shaft, is just as when last reported on, producing good dressing work for lead ore.

MICHELL—W. Sandoe, May 1: The swater in the new surface shaft has been rather troublesome during the past week or two, consequently the sinking has not been as we could desire, but having increased the number of hands we are now doing much better, and, the season also being in our favour, I calculate to be able to do better still. We are down about 5 fms., and the lode in the bottom of the shaft is 5 to 6 ft. wide, producing, excellent stones of lead ore, with also a mixture of lead ore, and, judging from its very kindly appearance, situation, &c., I consider it is likely to become one of the best lodes in the neighbourhood when opened on at a greater depth.

MOLLAND.—T. Bennetts, May 1: The lode in the 32 cast is not looking so well as nex

the course of the lode, at 71. per fm.

NORTH BULLER.—J. B. Delbridge, April 26: The lode in the 100, west of the engine-shaft, is still very wide, yielding spots of tin. In the 78 west the lode is from 10 in. to 1 foot wide, containing blende, copper, and peach; the lode at this point seems to be improving in appearance. King's shaft is sinking below the 30 in a good channel of ground; we hope, against the end of the taking to sink to the 40; 4½ fms. will meet this depth. Things throughout are proceeding satisfactorily.

NORTH FRANCES.—F. Pryor, May 1: The 60 end east has still a beautiful appearance, producing splendid stones of ore. The next level, in my opinion, will do something for us

ance, producing splendid stones of ore. The next level, in my opinion, will do something for us.

NORTH GREAT WORK.—J. Pope, jun., April 30: There is no change to notice in any of the ends now driving, nor in the pitches. We are progressing favourably with the tin, and shall scone be in a position for selling a parcel.

NORTH NANT-Y-MWYN.—J. Thomas, May 1: In approaching the western end of the level, which I hope to have all clear by Saturday next, we are continually finding excellent branches of lead ore left in the old workings—looking very kindly indeed. I feel confident that I shall, in my next report, be able to inform you that the lode in the end going west from shaft will produce at least from 15 cwis. to 1 ton of lead ore per fm.; the ground appears easy for driving, which I expect to be able to do for about 40s, per fm. The present end is 14 fms. from surface, and as the ground rises fast going into the mountain (say), 1 fathom in 3, thus a few fathoms driving will give us 20 fathoms of back, and when I find in clearing the level up to this point that the former party stoped their backs up to within 3 fms. of the surface, I may fairly expect, now just entering into new ground, that I shall be enabled to raise from 6 to 8 tons of lead ore per month, worth from 14t. to 15t, per ton, at a cost that will not exceed 50t, per month.

NORTH PROVIDENCE.—J. Dale, April 30: 0 mm y visit to the mine to-day I found the men had made good progress with the engine-shaft; it is now 8 fms. from surface, and the ground is not spare for sinking. We have nearly completed the excavation for the engine-house, but before the masons can commence it is necessary to make it complete, in doing which we shall lose no time. Mr. Gray, the company's engineer, is waiting with a full pare of masons to commence the buildings. I have stopped the meclearing up the winze under the adit, at least for the present. I consider it prudent to confine the present operations to sinking the engine-abaft in thall appeals be dispatch, and get on wit

NORTH WREY.—T. Kemp, May 2: The main shaft is now down more than 10 fms. and in good firm ground. There is no alteration since I reported on Monday last for the

stal meeting. I think it will be most advisable to coatean the valuable addition you cobtained to the sett (180 ms. on the run of the lodes north); we anticipate cut-some more copper lodes in this additional grant, which is just in the run east of

South Caradon lodes.

NORTH WHEAL ROBERT.—J. Richards, May 1: Murchison's Shaft: In the 50, east of Elliott's cross-cut, the lode is 18 in, wide, and consists of caple, quarts, and ore, saving work. In the 40 west, east of Gorman's cross-cut, on No. 1 branch, the branch is worth ½ ton of ore per fm. In Fall's rise, in back of the 30 west, the lode is unproductive. In the 30 west, and west of Edward's cross-cut, the lode is 3 ft. wide, composed of capel, mundle, and occasionally good stones of ore. In Crowie's winze, sinking below the 30, west of Edward's cross-cut, on No. 1 south lode, the lode is unproductive. The 30 east, on No. 1 south lode, the lode is unproductive. The 30 east, on No. 1 south lode, is being driven in a northerly direction, for the intersection of the north part of the lode. In Davis's stope, in bottom of the 30, on No. 1 south lode, the lode is worth 301, per fm. The trial shaft is in regular course of sinking below the 62, in favourable ground for progress. In Will's cross-cut south, in the 42, east of the trial shaft, the ground is favourable for progress.

OKEL TOR.—W. B. Collom, May 2: The lode in the 80 end is intersected by another cross-course, which we hope to get through in a short distance driving. The stopes continue to look well, yielding 6 tons of ore per fm. In the 65 end there is a fine lode, yielding 7 tons of ore per fm. The back stopes are yielding 6 tons of ore per fathorn. In the 50 end there is no alteration. We have this week shipped off a cargo of arsenical mundic.

a cargo of arsenical mundic.

OLD TOLGUS UNITED.—G. Reynolds, May 2: The shaftmen are now driving north in the 70 to prove the appearance of the lode which passed through the south lode a few fathoms above. In the 52 cross-cut the ground is much the same, but we have not intersected any branch or lode since my last report; we purpose driving about 6 feet further in order to prove correctly if any more of the lode is in that direction. We artilli driving on the main part of the south lode in the 52 west, which is still looking promising to be very productive as we lay it open. In the 42 west, on the south lode, we have communicated the rise with the winze sunk below the cross-cut in the 32, and now we have good ventilation for extending this level again on a large and promising lode, where we also hope to lay open some profitable ground. The tin pitches are much the same as for some time past.

PEDN.A.D.PEA INITED. — Treaty April 97. The clearing of stuff from the

are much the same as for some time past.

PEDN-AN-DREA UNITED.—W. Tregay, April 27: The clearing of stuff from the 100 east being a hindrance to the fixing of skip-road from that level to bottom, the sumpmen are continuing the driving of the 110, both east and west; the lode in each end is worth 101, por fm., the east end showing signs of improvement. The 100 east is yielding coarse tinstuff. The stope on north side of winze, in bottom of this level, is worth 301, per solid fm. The 90 west is poor. The 90 west winze is worth 141, per fm. In the rise in back of this level the lode is not taken down. The 90 west end, on Skimmer's lode, is worth 101, per fm. —Cobbler's: The skip-road men have been cutting ground at the top of the underlie for the rolls, which is now very nearly completed.—Street and Bragg's: The 4 Feast is poor. In the 40 east the lode is large, and promising for the production of tin.

PELVY WOOD — West Market 12 the 1

reduction of tin.

PELVN WOOD.—R. Ware, May 1: In the 10, south of Nelson's shaft, the lode is feet wide, composed chiefly of spar, mundle, and spots of copper ore. We are driving rrough a favourable channel of ground, at 5t, per fm.

PENHALDARVA.—J. Pope, May 1: The engine-shaft is 4 fms. 5 ft. below the 50, here the leader part of the lode is 15 in. wide, producing good stones of lead. In the 0, north of the engine-shaft, the leader part of the lode is 1 ft. wide, spotted with lead. a the 30, north of the engine-shaft, the leader part of the lode is 10 in. wide, producing ood bunches of lead—a very kindly lode.

PENHALIS.—R. Prev. J. Gishbut A. and 37. Section World States.

good bunches of lead—a very kindly lode.

PENHALLS.—R. Pryor, J. Gribbie, April 27: Setting Report: The engine-shaft os sink below the 30 by six men and three boys, at 16f, per fm. The cross-cut to drive north of ditto, in the 30, by three men and three boys, at 7f, per fm.; this end is letting out more water, as if it were approaching a lode or branch. The 20 cross-cut to drive north, west of the engine-shaft, by two men and two boys, at 6f, per fm. The winze to sink below the 20, west of this shaft, by four men, at 8f, per fm. The 20 to drive cast of ditto by four men, at 7f, per fm. The 20 to drive west of the cross-cut, no south lode, by four men, at 8f, per fm. The 10 to drive east of engine-shaft by three men and three boys, at 6f, per fm. The 10 to drive west of engine-shaft by four men, at 6f, per fm. The 10 to this end has very much improved in its appearance, now producing good stamping work for tin. The 10 to drive west of engine-shaft by four men, at 6f, per fm. Yo alteration but that spoken of in the 10 west has taken place since last report. Our tribute setting passed off similarly to that of last month. All the pitches and bargains have been taken. Our pay and setting went off well.

PROSPER INITEED.—W. H. Martin, May 2: Murchigous; lodg in the shallow level.

PROSPER UNITED.—W. H. Martin, May 2: Murchison's lode in the shallow level, 5 fms. from surface, is much the same in appearance as when last reported, producing copper ore in the gossan, but not sufficient to value. Eichbards's shaft, on the Moorlode, is sun's 5 fms. below the addit level, but is suspended at present in consequence of water; the lode yielded a fair quantity of tin; it is scarcely necessary to add that depth is only required to prove the real value of this very promising lode. We are progressing as fast as possible with our surface operations.

REDMOR.—T. Taylor, April 30: The ground in the 80 rise is a little harder, owing the lode splicing in with the cross-course; it is producing some very good saving ork. The ground is a little better in the 40 west; no improvement in the lode. The blute pitches are without alteration.

tribute pitches are without alteration.

RHEIDOL,—Capt. Ridge, April 27: In the river adit level the lode in the end driving is 1 ft. wide, yielding stones of lead occasionally; this level has now 5 fms. of backs, and has every appearance, if extended far enough, of coming under the blende in the workings above. We have about 30 fms. to drive to intersect Gwalthcoch jode. At the point where Gwalthcoch lode has been worked upon for 35 fms. west, the miners who formerly worked there informed me that during the time of its being worked, they had I ton of lead and 2 tons of blende per fathom, and the reason given for that part of the mine being given up in consequence of there being too much water. We have carted the greater portion of the lead from the entrance of the river adit, and have put it through the crusher. It has turned out much better than I expected. I think it would have been nearer the mark had I reported it last week at 2 tons per fm. In Nantglass we have a very likely end for lead.

end for lead.

RHYSCOG MINES.—A. Marsdeu, May 1: There is nothing new since my last in Cwm Bred. There must be a foot-bridge to cross the river for the company's use, so I am now seeing to it before the next rains come on; the expense will be a mere trifle, not more than 20s. A road is also required from the main road to the level across the river; a temporary one to answer our purpose will cost about 3. If we get underground in the adit next week I shall be able to spare two of the labourers from there to do it. I have had two carpenters for two days making frames ready for the adit, agreed for at 2s. each per day.

RIBDEN.—R. Niness, May 2: Within the last few days we have broken sones of copper ore in the 62 west, and the lode continues to look most promisi opperance of the lode in the bottom of the shaft continues without alteration.

stones of copper ore in the 62 west, and the lode continues to look most promising. The appearance of the lode in the bottom of the shaft continues without alteration.

ROSEWARNE UNITED.—H. Woolcock, May 2: In the 90, east of Jennings's shaft, the lode is 2 feet wide, producing stones of ore, but not sufficient to value. In the 90, vest of footway-shaft, no alteration in the appearance of the lode to notice last since week. In the 58, west of Richards's shaft, ground more favourable, and the stratum more congenial for copper ore. In the 48, east of Lane's shaft, the lode is 2 feet wide, composed of spar, peach, mundic, and a little ore. In the 34, west of Bush shaft, this end, we calculate to have a better lode. The 34 and 22, east of Lane's shaft, without change to notice last week. About 20 fathoms east of footway shaft, and 2 fathoms above the 46, we have discovered a good course of copper ore, worth full 30f. per fm. at this point. We have a large quantity of unexplored ground. The tribute department is looking very well.

ROUND HILL.—A. and R. Waters, May 1: In the stopes in the back of the 62, south of engine-shaft, the lode is large and of a promising character, yielding at present ½ for of lead ore per fm. The run of the great bunch of ore seen in the upper level, and developed down to within about 2 fms. of the roof of the 82, has not been intersected in the 62 fm. level, but that the continuation of the bunch does exist we believe; and looking at other analogous points in the mine, we do not hesitate to say that the present limited yield of this end of the mine is only temporary. In the stopes in the back of the 62, south of Hennett's sump, north of engine-shaft, the lode is a pask of the 63, south of Hennett's sump, north of engine-shaft, the lode is pasking through a tye of hard ground, through which the lode will resume its productive character. Nos. 1, 2, and 3 stopes, in the back of the 52, north and south of middle sump, north of shaft, are each worth 25 owts. of lead ore per fm.

SIGFORD CONSOL

SIGFORD CONSOLS.—W. Hosking, April 30: The north copper lode has again im-roved; we took down some of the lode yesterday, and found it from 4 to 5 feet wide, roducing first-rate work for copper. We have rocks at the mouth of the level from 2 to cwts. each—good dressing work for copper.

SILVER VEIN.—F. Squire, May 2: The results of silver now being obtained by m daily continue of the same positive character as last reported. The silver lodes are per fectly satisfactory, although not so large. We have made another fine discovery of orch

fectly satisfactory, atthough not so large. We have made another fine discovery of ore. SORTRIDGE CONSOLS.—J. Richards, May 1: In the 110 east the lode is 2 ft. wide andyleids a little ore. In Nicholis s cross-cut south, at the 74 east, the ground is favourable for progress. In the 50 east, west of Crew's cross-cut, on the south part of the lode, the lode is not so good, being disordered by slidy ground. In the 50 east, and east of Crew's cross-cut, on the south part of the lode, the lode is worth 10t, per fm. In Head's rise in back of the 50 east, on the south part of the lode, the lode is worth 10t, per fm. In Head's rise in back of the 50 east, on the south part of the lode, the lode is worth 1 now be driven both east and west thereof on the course of the lode. In the 50 east, on No. 2 south lode, the lode is small, and as this end is fast approaching the boundary it is suspended. In the 40 east, on No. 2 south lode, the lode is worth 1 ton of ore per fathom. In the stope in back of the 40 east, on the south lode, the lode is worth 1 ton of ore per fathom. In the 50 east, on No. 2 south lode, the lode is worth 10 ton of ore per fathom. In the 50 east, on No. 2 south lode, the lode is worth 10 east of the 50 east, on No. 2 south lode, the lode is worth 10 east of ore per fathom. In the 50 east, on No. 2 south lode, the lode is worth 10 east, or No. 2 south lode, the lode is worth 10 east, or No. 2 south lode, the lode is worth 10 east, or No. 2 south lode, the lode is worth 10 east, or No. 2 south lode, the lode is worth 10 east, or No. 2 south lode, the lode is worth 10 east, or No. 2 south lode, the lode is worth 10 east, or No. 2 south lode, the lode is worth 10 east, or No. 2 south lode, the lode is worth 10 east, or No. 2 south lode, the lode is worth 10 east, or No. 2 south lode, the lode is worth 10 east, or No. 2 south lode, the lode is worth 10 east or No. 2 south lode, the lode is worth 10 east or No. 2 south lode is worth 10 east or No. 2 south lode in the 105 east is split into two

lode, the lode is worth 10t, per fm.

SOUTH CRENYER.—E. Chegwin, April 30: The lode in the 105 east is split into two
parts; each part is about 9 in. wide, producing good stones of copper ore. We have put
the sumpmen to slak the fizh-rod shaft, which is now down 3½ fms. below the 105, and
we estimate sinking about 2½ fms. per month. The sump-winze is now down 12 fms.
below the 105, and we do not think it advisable sinking any deeper as yet. The tribute
pitches are worked down 3 fms. below the 105, and are looking well.—South Mine: in
the 51 cross-cut south the ground is favourable; we expect to cut the lode in about 4 fms.
were divine.

the 51 cross-cut south the ground is favourable; we expect to cut the lode in about 4 fms. more diving.

SOUTH DARREN.—J. Boundy, April 30: Saturday last being our pay and setting day, the different bargains were re-lat as follows:—The engine-shaft, to sink below the 70, by six men, at 15t. per im., for the month; the lode in the shaft being 3 feet wide, containing elay-slate, copper, carbonate of lime, yielding some very rich quality lead ore, and presenting a wery promising appearance; I intend next month patting nine men in the shaft to pash it on as fast as possible. The 70 end to drive east, by four men, at 8t. per fathom.; the lode is 6 feet wide, containing a dark clay-slate, copper, and lead ore, yielding of the latter about 18 cwts. per fm. No. 2 stope, in the back of the 70, west of the engine-shaft, by four men, at 68s. per fm. No. 3 stope, in back of ditto, east of the shaft, by four men, at 60s. per fm. No. 4 stope, east of ditto, by four men, at 69s. per fm. in.; these stopes continue to yield from 8 to 10 cwts. of lead ore per fm. The 60 end to drive east, by four men, at 61. 10s. per fm.; the lode is about 2 feet wide, containing clay-slate, copper, and lead ore, yielding of the latter about 5 cwts. per fm. A winze to sink below the 60, east of shaft, by four men, at 71. per fm.; there we are only carrying a small portion of the lode, in consequence of the water; as soon as a communication is effected with the 70, driving cast, we shall then take down the lode. The 30, to drive east on the north lode, by two men, at 51. 10s. per fm.; it cannot give you the value of the lode here at present. The 20 to drive west of men, with every chance of a further improvement. The driving of the 60 west, the 30 west, and the sinking of the winze below the 10, west, of air-shaft, will be attended to this week. The tribute pitches are let every two months.

SOUTH LADY BERTHA.-R. Hunsworth, May 1: The 40 east, on the north lode,

SOUTH LADY BERTHA.—R. Hunsworth, May 1: The 40 east, on the north lode, we have not taken down this week. The stopes east of Leaman's rise are worth 3 tons per fin.; the stopes west are worth 2 tons. We have weighed off 26 tons 19 cwis. 2 qrs. to Messrs. Williams and Co., and 48 tons 16 cwis. 2 qrs. to Messrs. Sweethand and Co. SOUTH WHEAL MARGARET.—W. Richards, May 2: We have cleared and secured the sdit 50 fms. on the great south lode, and consider there are yet about 20 fms. more to clear to enable us to reach the end; to all appearance, the lode for the whole of this distance must have been very valuable for tin, the ancient workers having taking away both beck and bottom, so far as the inefficient machinery then applied would admit of We have broken some splendid stones of tin from the arches left by the ancients to support the ground. On No. 2 lode, the old shaft being sunk so near the large cross-course, I would advise sinking a new shaft further to the east, and drive on the cross-course both north and south, to interact the two parallel lodes at any depth that may be considered advisable. I would also advise sinking on the new copper lode, which gives unmistakable evidence of early producing large quantities of copper ore.

SOUTH WHEAL TOLGUS.—May 1: Youren's Lode: The lode in the 130, west of Michell's engine-shaft, is 1 ft. wide, of peach, spar, and jack. In the 130, east of Michell's shaft, driving south towards the south lode, the ground is rather hard. The lode in the 120 west has not been taken down since last reported. The stope in the back of the above levis yields 2½ tons of ore per fathom. In the 110 west the lode is small and unproductive. The lode in the 100 west is 17 the blog in the bottom of the 100 west is 17 the lode; in the block of the producing sinking in the bottom of the 100 west is 17 the lode; in the lode is 18 inches of the lode in the 160 east is 2 cet wide, of soft spar and flookan—unproductive. The to

met with in the 90 cross-cut, north from Youren's lode, west of Micheli's shaft, since last reported.

ST. DAY UNITED.—R. Pryor, jun., E. Ralph, J. Cock, C. Oates, April 27: At Trussalls's north shaft, sinking below the 164, the lode is 2 feet wide, producing 2½ tons of copper ore per fathom. The stope in the 144, west of the shaft, will produce 3½ tons of ore per fathom. The stope in the back of the 144, east of the shaft, will produce 3 tons of ore per fathom. Billing's shaft, sinking below the 164, is worth 33, per fathom. In the 134 end, east of shaft, the lode is 5 feet wide, and worth 25, per fathom. In the 134 end, east of shaft, the lode is 5 feet wide, and worth 25, per fathom. In the 154 end, west of shaft, the lode is 5 feet wide, and worth 101, per fathom. The stope in the back of the 164, east of the shaft, is worth 181, per fathom. The stope in back of the 164, east of the shaft, is worth 181, per fathom. In the 144 end, east of shaft, the lode is 5 feet wide, and worth 151, per fathom. In the 134 end, east of shaft, the lode is 3 feet wide, and worth 167, per fathom. In the 134 end, west of Trevivian's, the lode is 3 feet wide, and worth 67 per fathom. In the 114 end, west of Trevivian's, the lode is 3 feet wide, and worth 67 per fathom. In the 114 end, west of Trevivian's, the lode is 9 ft. wide, and producing saving work for tin. In the 136 end, west of Bissoe Pool engine-shaft, the lode is 2 feet wide, and producing good stones of ore. Our pay and setting went off very well.

ST. IVES WHEAL ALLEN.—H. Taylor, May 1: The 30, east of Glesler's, is still

stones of ore. Our pay and setting went on very well.

ST. IVES WHEAL ALLEN.—It Taylor, May 1: The 30, east of Glesler's, is still looking very well; the lode is about 18 in. wide, and worth 181. per fm. The lode in Roderick's engine-shaft is much the same as last week, about 7 in. wide, and worth 51. per fm. The 60, west of sump-winze, is not yet holed to the 50, east of Glesler's, but we are expecting to do so daily. The masons are building the steam-stamps and whimhouse with all possible speed, and we shall not be long in completing this work. All other places are without any alteration to notice since last week.

house with all possible speed, and we shall not be long in completing this work. All other places are without any alteration to notice since last week.

TEES SIDE.—Richard Bray, May 1: The ground at the engine-shaft is not quite so favourable for sinking as when last reported on. The north side, or cheek of the north ide, is improving, going down with a good sprinkle of ore. I cannot say the size, as we have not cut through the lode for the last 2 fms, sinking. So far as I can see, it is looking very promising to be a productive lode in sinking in the limestone. No change in the Sun vein since my last. I will send you the setting report after the pay.

TOLCARNE.—May 1: Field's Lode: In Field's shaft, sinking below the 20, the lode is 2½ ft. wide, composed of quartz, gossan, and good stones of ore, yielding 1½ ton of ore per fathom for length of shaft (12 ft.), and is promising for further improvement. The lode in the rise in back of the 20 east is 10 in. wide, and consists of spar and gossan; in the 20 west the lode is 2 feet wide, composed of quartz, gossan, and eccasional stones of ore, a promising lode. The lode in the winze sinking in botton of the lo east is 18 in. wide, composed of gossan and quartz. In the winze sinking in the bottom of the adit east the lode is 6 in. wide, unproductive.—King's Lode: The lode in the rise in back of the adit is 1 foot big, composed of gossan and spots of black ore. The ground in King's shaft, sinking from surface, is rather hard.—Enthoven's Lode: The lode in the adit end, driving west, is 6 ft. wide, worth for the fally 60, per fm., a splendid looking lode. The stope in back of the adit east is worth for the 53. per fm.

TREFULACK UNITED.—T. Hodge, May 1: The engine-shaft is cut down and secured 30 fms. below the adit level. Our drop-lift is now resting on attie, about 40 fms. below the adit level. Our drop-lift is now resting on a tile, about 40 fms. below the old workers we have about 4 fms. more to reach the bottom of this shaft. In the 36 west, on the south lode, the

getting good wages. The engine and pitwork are in good working order. TRENCROM.—R. Hollow, F. Bennetts, May 2: In Glesier's engine-shaft, sinking below the 90, the lode is producing saving work. In the 90, cast of the engine-shaft, the lode is worth 21, 10s. per fm. In the 80, cast of the engine-shaft, the lode is worth 14, per fathom. In the 80, west of the engine-shaft, the lode is worth 12, per fathom. In the 60 cross-cut, clearing south-east of the engine-shaft, no change. In the 40, cast of the engine-shaft, the lode is worth 21, 10s. per fathom. In the 30, cast of the engine-shaft, the lode is not to value at present. In the 20, east of Michell's flat-rod shaft, the lode is worth 31, 10s. per fathom. In the 20, west of Michell's flat-rod shaft, the lode is producing saving work.

sine-shaft, the lode is not to value at present. In the 20, east of Michell's flat-rod shaft, the lode is worth 32. 10s, per fathom. In the 20, west of Michell's flat-rod shaft, the lode is producing saving work.

TREVENEN AND TREMERHEERE UNITED.—J. Webb, May 1: The engine-shaft is in an excellent condition for sinking; the men are using all their powers to reach the bottom in the 170 fm. level by the end of the present month, and I think they will do so; we shall then be throwing open much tin ground. The 160 will in about a fortnight or three weeks reach the whole ground west of the engine-shaft; this will give a great height of unexplored ground. In the 140, west of Tremenheere engine-shaft, we have been clearing out old levels and taking up water, &c.; we shall also soon be able to operate on a quantity of tin ground here. Therefore, it will be seen that we shall soon be independent of being confined on the old workers' refuse for the getting of tin. The tin sales will not increase until we reach the above objects. It is very satisfactory to be able to say that everything is in good order for going ahead, and that the deeper we go the stronger evidences we have of our having a valuable run of tin.

TREVOOLE.—H. Stephens, J. Lean, May 2: We have not reached the elvan course in the 9c; there is a large tode in the end, letting out a quantity of water and producing a little ore; the same level, driving east of the intersection, is 4 feet wide, with a leader producing 1½ to not ore per fm. The 80 continues agood as last reported, it is now sun-pended for a short period, and the men engaged putting up a rise in the back; this rise is opening an excellent piece of ore ground. Stephens's shaft, sinking below the 50, is improved, worth 1½ to 2 toms of ore per fm. The 80 continues agood as last reported, it is now sun-pended for a short period, and the men engaged putting up a rise in the back; this rise is opening an excellent piece of ore ground. Stephens's shaft, sinking below the 50, is improved, worth 1½ to 2 t

TRUMPET UNITED.—G. R. Odgers, April 27: Nothing new in the lode at the 15 since my last. We shall commence the shaft below that level next week, so that everything is being done as vigorously as possible. We have also fixed the flat-rods to the flat-rod shaft, which we shall sink next week.

TYNE HEAD.—G. Millican, April 29: The level is a little easier to drive; now set t 61. 10s. per fm.

WENTNOR (Pantasa).—T. Pierce, May 2: We are reparing the bottom of Grosvenor haft, cutting plat, &c., and getting ready to sink the same, as last reported. The lode in the present forebreast of the 64 yard level is fully 3 ft. wide, composed of clay, spar, alamine, and good lumps of solid ore; it is a fine, strong lode, and promises well; the ross-cut south of this level, to cut the parallel vein, is in solid limestone, and is pre-ressing well. Our pay and setting will be on Saturday, when I will report bargains.

gressing well. Our pay and setting will be on Saturday, when I will report bargains. WEST BASSET.—W. Roberts, April 30: In the 114, west of Percy's shaft, the lode is 2 ft. wide, with occasional stones of ore. In the 104 west the lode is 3 ft. wide, produceing I ton per fm. The 94 west produces I ton, lode 5 ft. wide. In the 84 west the lode is 3 ft. wide, producing 3 tons per fm.; this end is suspended in order to drive north about 4 fms. to get under Grenville's engine-shaft. In the winze sinking under the 65 the lode is 11½ ft. wide, tribute ground; the rise in the back of the 65 is opening tribute ground. In the 50 west the lode continues 2 feet wide, producing stones of ore, and is likely to improve.—South Lode: In the 84 west the lode is I foot wide, producing 1 ton of ore per fm. In other paris there is no alteration to notice.

WEST CONDURROW.—G. Jewell, May 2: Since our last report we have sunk the engine-shaf. 6 feet below the 12; the lode is 4 feet wide, composed of spar, prian, and peach, with red flockan, and producing a little tin impregnated with copper ore. As soon as we are a little deeper we shall commence driving east and west at the 12. The other bargains are much the same as when last reported on.

WEST DEVON CONSOLS.—G. Rowe, May 2: Our exertions in forking the water have been attended with success. The engine-shaft will be drained to the present bottom by to-morrow morning, after which no time will be lost in clearing up the shaft and the different levels, and getting each point into active operation.

WEST PAR.—J. Webb, May 2: After driving 14 fms, from the first shaft we intersected the copper lode, which is 3 ft. wide, composed of gossan, mundic, and spots of yellow copper ore—a strong promising lode. We shall continue on the adit towards the tin lode, which we calculate about 20 fms, from the copper lode; the ground is easy, and it shall be hastened on with all speed. I enclose tin bill, and draft for the same.

and it shall be hastened on with all speed. I choiced in bill, and draft for the same. WEST SHARP TOR.—W. Richards, April 29: We have an increase of water in the 150 cross-cut, and the end is very vugby, which impedes the progress; the part now being cut into is still gossan, containing red oxide of copper and grey copper ore. The sumpmen will complete the tip-plat on Wednesday, when the sinking will be resumed with all possible good effect.

WEST SNAILBEACH.—J. Richards, May 2: The north lode, driving east at the 64, is looking very favourable for a good one, and is producing some good stones of ore. I expect an improvement here daily. There is no alteration to report in any other part of the mine.

of the mine.

WEST TOLGUS.—May 1: The men are making good progress in sinking Taylor's engine-shaft; the water is drained by the rise putting up from the back of the 40.—North Lode: The lode in the 40, west of Wheal Raven engine-shaft, is 3½ feet wide, producing 2 tons of ore per fathom—an fine promising lode. The lode in the 50, west of Wheal Raven shaft, was taken down last week, and has improved; now 2½ feet wide, yielding 1 ton of good ore per fathom, and promising for further improvement-We have drained the water from Wheal Raven engine-shaft to the bottom of the 65, and are now clearing that level west from shaft as fast as possible, and hope to come piste it by Saturday next, when we intend setting it to drive west on the south lode

with all speed. If the lode continues to hold good in the 40 and 50 fm, levels we shall soon open ground for a good pitch or two.

soon open ground for a good pitch or two.

WEST WENDRON CONSOLS.—R. Kendall, J. Hore, April 27: We have cleared
the cross-cut south of the engine-shaft 12 fms., and are now about 5 fms. from a shaft
which we have cleared to the back of the cross-cut; this shaft is about 20 fms. from the
lode behind the smiths' shop, where the old men worked extensively. No change in the
water-wheel shaft or 10 fm. level to notice. We are getting on with the flat-rods and
bob-stands as fast as possible.

ob-stands as fast as possible.

WEST WHEAL MARGARET.—Capts, Uren and White, April 30: Hallett's shafts down nearly 7 fms. below the 20; the lode is split into two branches, and at present omewhat confused by a hard bar of ground coming in from the south side of the shaft; owever, we expect to get through this shortly, as there are indications of a change for he better in the present bottom. The lode in the 20, east of Hallett's shaft, is 2 ft. wide, overth 31, per fm. We have cleared up the old workings on Wheal Mary lode 6 fms. teep, but as yet we have not reached the bottom.

working on when the treather the the out workings on when that's hole of madeep, but as yet we have not reached the bottom.

WEST WHEAL TREVELYAN.—G. R. Odgers, J. D. Osborn, April 26: The 58 to drive west, by six men, at 41. per fin, here we have cut through the lode, where it is nearly 4 ft. wide, composed of quartz, &c., and which we are of the opinion is looking more kindly than it did at any of the upper levels on near the shaft; this weap uppose to push on with the utmost vigour to get under the orey ground below the 48. The 48 to drive west, by four men, at 41. per fin, ; lode being from 2½ to 3 ft. wide, producing a little ore, but hardly enough to vatue, although a kindly lode; at this level we have driven through a good plee of ground 16 fins. long. A stope above this place, to eight men, and one boy, at 31. per fm., where we have a good lode, worth full 154. per fm. At 27 ms., west of the shaft, same level, we have a good lode, worth full 154. per fm. At 27 ms., west of the shaft, same level, we have a good lode, worth 127. per fm.; this is a good improvement. A winze to sink below the 38 west, by six men, at 84, per fin.—tode small. A cross-cut to drive north of the main lode, at the 28, by four men, at 44, per fathom, the ground being of an easy killas; we have intersected a small branch letting out water. The cross-cut is extended south at Park's shaft 5 ms., and which we have re-set to four men, at 64, per fm.—On the whole, we think the mine is looking better to-day than we have seen it for some time. We sampled 41 tons on April 23, and we calculate the next to be equal to the last.

WHEAL AGAR.—W. Roberts, April 30: The following bargains were set on Friday

day than we have seen it for some time. We sampled 4: tons on April 29, and we calculate the next to be equal to the last.

WHEAL AGAR.—W. Roberts, April 30: The following bargains were set on Friday last:—Windstow engine-shaft to sink under the 80, by nine men, at 251, per fm. The 80 to drive west, by six men, at 144, per fm.; this end is now under the east end of the winze sinking under the 70; in the present end the lode is 4 ft. wide, producing nearly 2 tons of ore per fm. The winze under the 70 is down 7½ ms.; we intend to hole it to the 80 before taking down any more of the lode, which was last reported at 6 tonsper fm. Price for sinking, by eight men, 91, per fm.; the 70 east, by four men, 64, per fm.; a winze under the 60, by four men, 31, 10s. per fm.; the 60 cross-cut morth, by four men, 41, 5s, per fm. In this end we have small branches of yellow ore, and if no other lode is found, they should be opened on east and west after a while.

WHEAL ANNE—H. B. Groso, May 2: The lode in; the deep adit, cut last week, is of the same size and value as last reported, producing rich work for tin, with every prospect of a continuance. The shallow adit is being pushed on with all the speed possible, and we hope to reach the great lode by the beginning of next week, when we may expect a good ourse of tin. We are getting on with clearing the ground for the large wheel, and no time will be lost in getting it to work. Our tin from the stamps is turning out well, better than expectated, from the back of the lode.

WHEAL ARTHUR.—T. Carpenter, April 30: We have driven the adit level north

well, better than expectated, from the back of the lode.

WHEAL ARTHUR.—T. Carpenter, April 30: We have driven the adit level north
by the side of the cross-course 3 fms. 4 ft., but not yet reached the lode. We are daily
discovering small branches of spar, intermixed with mundic, running in the same direction the lode is, to the east of cross-course, and letting out a quantity of water; this end
is driving by six men, at 62, per fm. The lode in back of adit west is 4 ft. wide, and
still improving, yielding rather more than 1 ton of ore per fm.; rising and stoping by
six men, at 31. 10s. per fm. The lode in the 50 east is 2½ ft. wide, yielding some good
stones of copper ore. We expect to cut the cross-course in this end in a few days. This
level is driving by six men, at 31. 3s. per fm.; stent to cut the cross-course.

I have put
two men to stope the back of the adit on the north lode, about 4 fms. cast of the western
boundary, where the lode is 4 ft. wide, composed of spar, capel, mundic, and copper ore,
worth about 1 ton per fm. No alteration in any other part of the mine to notice.

WHEAL CREBOR.—J. Gifford. April 30: Cock's Shaft: We have completed the skip-

WHEAL CREBOR.—J. Gifford, April 30: Cock's Shaft: We have completed the skip-road to the 69, and commenced driving east and west. No alteration in other parts of the mine since my last. We sampled at Morwellham, on Friday, the 26th, 32 tons

road to the 69, and commenced driving east and west. No alteration in other parts of the mine since my last. We sampled at Morwellham, on Friday, the 26th, 32 tons of copper ore.

— May 2: There has been an enquiry for our mundle, of which we have from 50 to 80 tons. Mr. Harvey's assay of the ore sampled is 4½.

WHEAL CUPID.—R. Pryor, April 27: We are getting on very well with the breakage, and shall have it completed and the engine set to work on Monday next. The men in the two bottom levels have been engaged about this work, therefore there has been no change to notice since last report. The lode in the 40, east of the engine-shaft, is split into two parts, which has for the time leasened the value; the general character of this end is good, and I think a further improvement will shortly be met with.

WHEAL EDWARD.—M. H. East, April 27: South Lode: In the 31 west we are driving by the side of the lode; ground moderate for progress. In the 71 west the lode continues large and erey, worth from 4 to 5 tons per fm., and looks promising to continue productive. In the 61 west we are driving by the side of the lode; the ground looks favourable for mineral. In the rise in back of this level the appearances are of a very promising character for opening uja large quantity of ore ground. The main lode is worth at present 3 tons of ore per faithon. In the 61 cast the lode is disordered, and we think we are getting near the main part of the cross-coursescen in the lavel above. In the 50 weat the ground is very much cased for working, and we calculate we are getting very near the Caistock cross-course. In the 40 cast the lode is improved, and will yield at present ill 4 tons of good ore per fathom. In the rise and stope in back of this level the appearances are a set a present luli 4 tons of good ore per fathom. In the pitch his lode is worth 3 tons of ore per fathom, and in the pitch the lode is worth 3 tons of ore per fathom, and in the pitch the lode is worth 3 tons of ore per fathom.

In the pitch in back of this 60 ca

WHEAL GRENVILLE.—G.R. Odgers, W. Bennetts, April 27: The lode in the engine-shaft is full 2 ft. wide, composed of quartz and priant, with a little ore, what we term a strong and kindly lode; set to hine men, at 30. per fm. The lode in the 100 east is nearly 18 in. wide, an orey lode, but unfortunately there is a great deal of water flowing from it, that carries away the black ore; had it been dry it would yield 1½ ton per fathom; set to four men, at 44. per fm. The lode in the 100 west is nearly 2 ft. wide, a pretty lode, yielding 1 ton per fm.; this is likely to lay open a piece of orey ground; set to four men, at 31. be, per fm. The lode of the 90 east is 18 in. wide, producing good stones of ore—a kindly lode; set to four men, at 6. per fin. The lode in the 90 west is 1 ft. wide, producing ore and mundle, not enough to value, looking promising; set to four men, at 64. per fm. A stope in the back of this level, to four men, at 31. per fm.; the lode worth 104. per fm. The lode in the 80 east is split into branches; set to four men, at 71. per fm. The lode in the 80 west is 14 in. wide, of quartz and peach, with atones of ore—a kindly lode; set to two men, at 51. 10s. per fm. At the casiern part of the mine, towards East Grenville, we are proud to tell you that we have sunk a small shaft 4 fms. deep, in which we have discovered a very kindly lode, partaking very much of the same character it did in that mine, and we think by sinking this shaft we shall be rewarded with success. WHEAL GRENVILLE,-G.R. Olgers, W. Bennetts, April 27: The lode in the en-

same character it did in that mine, and we think by sinking this shaft we shall be rewarded with success.

WHEAL GRYLLS.—E. Rogers, J. Pope, May 2: Fisher's Lode: Annie's engine-shaft is sunk 8 fms. 3 ft. 6 in. below the 10. In the 10, east of this shaft, the lode is still in a disordered state, but producing saving work. In this level west the lode is a ft. wide, opening tribute ground. In this level, east of the flat-rod shaft, the lode is small and poor. In the end west the lode is of the shaft, the lode is small and unproductive.—Georgia Lode: In the stope in bottom of the 3d the lode is small and unproductive.—Georgia Lode: In the stope in bottom of the 3d the lode is small and unproductive.—Georgia Lode: In the stope in bottom of the 3d the lode is small and unproductive.—Georgia Lode: In the stope in bottom of the 3d the lode is set to the lode in the stope, in the back of this level, is worth 18; per fm., and No. 2 stope 171, per fm. At our western shaft, on Mill Pool standard lode, we find the water is gradually going down; we expect, therefore, during the next month to increase the number of men in this part of the mine.

WHEAL HARRIETT.—S. Williams, April 27: The 115 is driven east on the branch 6 ft., which is producing stones of copper ore. The lode in the winze sinking below the 100, west from the cross-cut, on the main lode, is worth 81, per fm. The main lode in the 90, cast end, is producing stones of ore. The lode in the 3d, east end, is poor. The lode in the 3d, east end, is upproductive. The lode in the 10, east end, is poor. The lode in the 4cep adit end is producing stones of ore. The stope above the deep adit is worth 81, per fathom.

WHEAL HEARLE.—N. Tredinnick, April 27: The following is the result of our sur-

WHEAL HEARLE.—N. Tredinnick, April 27: The following is the result of our survey to-day: —The 100, to drive east, by three men, at 61, per fm., to carry the end 12 ft. high, the lode producing tin, but not to value. The 100, to drive west, by three men, at 78s. per fm., the lode worth 77, per fm. The 90, to drive west by three men, at 30s. per fm., the lode owrth 67, per fm. The 90, to drive west by three men, at 30s. per fm., and 6s. 8d. in 17., the lode is worth 101. per fm. The 80, to drive west, by two men, at 60s. per fm., tode owrth 67. per fm.; this end, which is still in good tin ground, is 12 fms, further west than the levels above. The 60, to drive east, by two men, at 130s. per fm., the lode poor. The 50 cross-cut, to drive south, by four men, at 113, per fm.; ground still hard for driving. We have nine tribute pitches, working by twenty-eight men, the tributes varying from 6s. 8d. to 16s. in 17., at 601, per ton for tin. We have fixed the drawing-lift to the 100, and are calculating to fix the new pole to the 90 next month. We are glad to inform you that we find our tin ground lengthening in depth, and our prospects are good.

WHEAL MOYLE.—J. Michell, May 1: This mine is looking splendid at present, and should the lode in the winze and rise continue we shall have one of the best mines in

WHEAL MOYLE.—J. Michell, May I: This mine is looking splendid at present, and should the lode in the winze and rise continue we shall have one of the best mines in Cornwall. The winze in the bottom of the adit is worth from 70t. to 80t, per fathom. The rise in the back of the 12 is worth 50t, per fathom. Speaking within bounds, I consider we have 10 fathoms of high ground in the back of the 12, worth at least 50t, per fathom on an average, and so far as I can see and judge from the ground wrought on in the bottom of the adit, and the appearance of the lode in back of the 12, it is 70 fms. long, of the same value as the winze and the rise before mentioned; should it continue, which I have every reason to believe it will, as in the bottom of the 12, in the 20 we shall have the best mine in this county. We have 3 fathoms of ground to hole to the winse, which will take a week to accomplish, and then we shall be prepared to keep the steam-stamps from the stopes in the back of the 12 for some thue, with a lode worth 50t, per fathom, and which we can return for 10t, per fathom, including everything. We are getting on very well with the stamps, and hope to be working in three weeks from this date.

WHEAL NOREIS.—J. Nance, J. Andrews. Anjl 27: The engine-shaft is now 14 fms.

ting on very well with the stamps, and hope to be working in three weeks from this data:

WHEAL NOIRRIS.—J. Nance, J. Andrews, April 27: The engine-shaft is now 14 fmsbelow the addit level; we hope to complete the sinking of it to the 15 in the course of
seven or eight days, when we shall commence cross-cutting to interact the lodes. The
ground at the fish-rod shaft is hard, consequently the progress in sinking it is slow; present depth 7 fms. below the addit level, The east shaft is now completed to the required
depth for the addit level; the men have been employed taking down the lode, &c., in the
past week, which we find to centain stones of tin of good quality; the lode at this point
is large, but has a horse of granite in it. We shall at once begin to drive east and west
on its course to open out tin ground; the ground under the said lode is very favourable
for driving, and we anticipate good roturns from this part of the mine. The No. 3 lode,
in addit end east, is at present large, and consists of capel, with a little tin and spots of
yellow copper ore. The No. 3 lode, in the back stopes, is without any clasing worth
noticing. The No. 4 lode, in the addit end east, is 7 ft. wide, containing a branch on the
south part of it 12 in. wide, worth 6f. per fm.; price for driving, 30s. per fm.

WHEAL SHEPHERIDS.—H. Bennetts, May 1: There is no alteration to notice in the
adit end, east of Rey's shaft, since last report; lode 2 ft. wide, composed of spar and
jack, with spots of lead. The ground is easy for driving, and does not require any timber. Friday next being sagting-day, I expect we shall set a new shaft to sink.

WHEAL PROSPIDINICK.—B. Kendall, April 27: The lode in the 10, cast and west

WHEAL PROSPIDNICK.—R. Kendall, April 27: The lode in the 10, east and of Wilson's shaft, is much the same as last week. As soo n as we have cut the p

the 10 we shall resume sinking this shaft. At Watson's shaft we are preparing to sink under the 12. The lode in the 13, east and west, is improving. We have cleared up the old men's workings in the bottom of the adit east, and find the lode is about 15 in. wide, producing good stamping work. Next week we shall commence burning our tin, and prepare it for the smelting-house.

WHEAL TEHIDY.—J. Pope, May 1: In the 70 west, on the caunter lode, the ls 18 in. wide, producing stones of ore. In the 60 west the lode is 2 ft. wide, producing good stones of ore. In the 60 west, on the south branch, the branch is 1 ft. wide, or possed of peach, spar, mundic, and spotted with ore. In the 60 east, on the south branch is 10 in. wide, producing good stones of ore—a kindly branch.

where the practice producing good stones of ore—a kindly branch. WHEAL TREMAYNE.—R. Williams, J. Williams, April 27: At the boundary engine-shaft we discovered yesterday morning that of the first pair of strapping-plates below the main beam two out of the four were broken, and several bolts; fortunately it was discovered just in time, and put to rights after eleven hours stoppage. The engine is now working very well, and forking the water, which is decreasing in consequence of the dry weather; in the winze sinking under the 123, east of the same shaft, on the engine lode, there is no change in the lode since last report. In the 120, east of Allen's shaft, on Allen's branch, the branch is looking more regular, and yielding some spots of tin throughout. The stope in bottom of the 113, west of Allen's shaft, on Allen's branch, its yielding some good thistuff; in the 113, east of the same shaft, on Allen's branch, its pleiding some good thistuff; in the 113, east of the same shaft, on Allen's branch, the branch is looking very well, worth 26t, per fm. The stopes in bottom of the same level are yielding about the same quantity of tinstuff as they have for some time past, and worth on an average 15t, per fm. In the 103 cross-cut, east of the same shaft, towards Allen's branch, the ground is rather hard for driving. We have secured Allen's shaft to the 113, and commenced drawing tinstuff through the same. The new engine-shaft is completed cutting down to the back of the 53.

down to the back of the 53.

WHEAL TREVELYAN.—R. Kendall, April 27: The engine-shaft is sunk 5 ft. this week, and the ground is still improving: I think we shall cut the lode shortly, the lode being of a kindly nature. The cross-cut south of the engine-shaft is coming near a branch, and is getting harder for driving. The cross-cut driving north of the deep additionable in the control of the deep and it still hard; I think we had better drive this with two men for the present. The 20, west of King's shaft, is driven about 25 fathoms; the lode is yielding some rich stones of the cross-cut for the cros

is still hard; I think we had better drive this win two men for the present. In Jow west of King's shaft, is driven about 25 fathoms; the lode is yielding some rich stones of the ore.

WHEAL UNION.—T. Gianville, May 1: In the flat-rod shaft the lode is 2½ ft. wide composed of spar, mundic, and copper ore, worth for the latter 1 ton per fin. In the 40, driving east of the cross-cut, the lode is worth 6½, per fin. We have not as yet cut the lode in the 40 cross-cut, south of Moyle's shaft.

WHEAL UNITY CONSOLS.—W. H. Reynolds, April 27: The lode in the stopes in back of the 65, west of shaft, and near the cross-course, is much improved, and the ore is lengthening as we rise. We brought to surface some fine rocks of rich ore from it yesterday, and the value for 760 5 fms. long is at least 200, per fin. None of the other levels are so far west, but we are pushing on other ends, and hope soon to be able to report an improvement in the 50 and 75 fm. levels, in each of which ends the lode is oray, and very promising. In the adit, on the south lode, there is an increase of water, and the lode is 3 ft. wide, of gossan, quartz, &c., with good spots of rich ore in it. This we believe to be the same lode that in the adjoining sett is valued at 1001, per fm. We have a shaft down 9 fms., and in 30 r 4 fms. further sinking we expect to fail in with the lode. Other points of operation are just as last reported.

WORVAS DOWNS.—R. Harry, April 30: Owing to the sinking-lift coming in contact with some old timber and stuff about 4 fathoms below the 20, we have not made so much progress in draining the mine as we could wish during the past week. We think, however, this is only a choke, and will be cleared in a few days after we commence trawing away the stuff. At present the sumpmen are engaged in dividing and casing the shaft from the deep adit to the 20, in order to bring down the whim-kibble. In the bottom of the 20 cast we find the ground worked away for a great many fathoms in length; therefore we have to find the ground worke

YARNER.—R. Barkell, May 1: North Lode: The winze is holed to the 30, which has well ventilated the castern part of the mine. We are now engaged in taking down the lode in the said winze, which is fully 4 feet wide, worth 5 tons per fathom; having made this communication, we are now in a position to increase our samplings. In the south lode, in the 30 cast, the lode is 3 ft. wide, worth 1 ton per fathom, with an improved appearance. In the 20 west we have about 2 fathoms of the lode to take down, which we shall begin about this safternoon, and when taken down you shall be advised of its value. All other places are much the same as when last reported on.

GREAT NORTH TOLGUS .- Since the intersection of the lode in the flat Great North Tolgus.—Since the intersection of the lode in the flatrod shaft it has steadily improved, being now about 2 feet wide, and producing splendid specimens of copper ore. From its general character, it
is assumed by the most competent authorities in the district that the present working is upon the back of a large deposit of copper ore. This assumption is the more justifiable as some years since a large quantity-of
ore was raised from the same lode a few fathoms to the east, and good ore
ground is known to exist in the bottom of the adit level. The lode being
of a regular dip, and of a masterly character, and having two fine walls,
a little more development is all that is required to prove its intrinsic value.
The whole of the operations are now being prosecuted with all practicable
speed. The engine will be put to work forthwith, and the sinking of the
south shaft continued on the course of the lode. The engine-shaft will
also be continued, so as to attain the junction of the lodes, which is looked
forward to with the greatest interest. A section of the mine, showing its forward to with the greatest interest. A section of the mine, showing its various lodes and workings, accompanied by a special report from a well-known mining authority, will appear in a Supplement in next week's

The British Association for the Advancement of Science will this year hold its meeting (the thirty-first) at Manchester, commencing on Wednesday, Sept. 4. Mr. W. Fairbairn, C.E., Ll.D., &c., is the president elect; the vice-presidents elect being the Earl of Ellesmere; Lord Stanley; the Bishop of Manchester; Sir Philip de Malpas Grey Egerton; Sir Benjamin Hoywood; Mr. T. Bazley, M.P.; Mr. J. A. Turner, M.P.; Dr. Joule; Mr. Eaton Hodge kinson; and Mr., Toseph Whitworth. Mr. R. P. Greg will act as the local treasurer; and Messra. Darbishire, Nelid, Ransome, and Prof. Roscoe as local sceretaries for the Manchester meeting. The arrangements with respect to the sceretaries of the local sectional committees, who will be glad to receive communications relating to their several departments, being as follows:—Mathematical and Physical Science, Prof. Cilfton and Mr. Hoelis; Chemical Science, Prof. Roscoe and Mr. Runney; Geology, Messra. Atkinson and Perkins; Zoology and Botany, Dr. Alocek and Mr. Mosley; Physiology, Dr. Roberts and Mr. Windsor; Geography and Ethnology, Mr. Greenwood, Principal of Owen's College; Economic Science and Statistics, Prof. Christie; Mechanical Science, Mr. John Robinson. Communications intended for presentation to the sections must be forwarded in letters, addressed either to the assistant general secretary (Prof. Phillips, Oxon.), at "The Portico," Manchester; or to one of the secretaries to local sectional committees, mentioned above; and must be accompanied by a statement whether the author will be present, and on what day, so that the business of the sections must be attended for presenting the Association are diffused through every branch of our national industries, we trust the declaration that "the tunds which the Association has to expend for its scientific objects consists only of the payments made by members and associates," will suffice to induce a universal endeavour to take every opportunity of increasing their number. The British Association for the Advancement of Science wil

MUSEUM OF PRACTICAL GEOLOGY—THE PALEOZOIC EPOCH—THE CAMBRIAN, SILURIAN, AND DEVONIAN PERIODS.—The lecture, on Thursday, by Mr. Warington Smyth, F.R.S., was on the above subject. After briefly commenting on the metamorphic system, he went on to consider the lower portion of the Palæozoic—a period, he said, of considerable interest to the naturalist, for in it we find the first traceable symptoms of animal life on the globe. By this it is not to be inferred that animal life did not exist before this period, only that it is the conclusion so far as observations have gone. The classification of this geologic epoch is still far from being satisfactorily settled, notwith-standing the important labours of Prof. Sedgwick and Sir R. Murchison. The lecturer now gave an interesting sketch of the beds comprising the lower and upper Silurian groups, and after pointing out the evidence of rain drops and ripple marks, went on to speak of the Longuaynd slates, in which the earliest trace of animal existence has been found by the presence of the zodphyte, known to naturalists as the olhamia. In the Ludiow series we find the dawn of the vertebrata, and one point worthy of special consideration is that the species is of a very high type, a fact which is hostile to several popular dogmas of animal progression. Mr. Smyth now directed attention to the Devolunian system, and showed that the lower portion gave great indication of breakers and violent storms during that early period. On examining the rocks of the old red sandstone, we find them characterised by a profuse assemblage of the remains of fishes, such as the periothys and cephalaspis. The lecturer gave great credit to the labours of the Lite Miller in this particular field, and recommended highly his interesting work on the subject. In conclusion, attention was drawn to the cleavage of slate, which so cour almost invariably at right angles to the plane of deposition. Some observers try to explain this phenomenon by the polarity of forces, but Prof. Tyndall is of opinion it i MUSEUM OF PRACTICAL GEOLOGY-THE PALEOZOIC EPOCH-THE m by the polarity of forces, but Prof. Tyndall is

GEOLOGICAL SOCIETY.—Papers to be read on May 8:—1. "Description Two Bone-Caves in the Mountain of Ker, at Massat, Department of the Arriege." By . Alfred Fontan. Communicated by M. E. Lartet, For. Mem. G. 8.—2. "Notes on some urther Discoveries of Flint Implements in the Drift; with some Suggestions for Further arch." By Joseph Prestwich, F.R.S., F.G.S.

Geological Society, on Toseday (Mr. J. Dickinson, the Government Inspector, in the chair), Mr. Whitehead exhibited an ingenous model, designed to prevent over-winding: it represented a winding-engine, and was so contrived that when a certain number or revolutions (to be regulated by the depth of the pit) had been performed, and when the cage consequently might be supposed to have reached the top, a brake suddenly descended and effectually prevented any further winding, in case the engine-driver should have neglected to stop the engine at the proper time: If he had not neglected this, the brake was not brought into action. The model was generally approved of, and thanks unanimously accorded to Mr. Whitehead.—Some discussion took place as to whether the Davy lamp was an effectual safeguard against fire-damp under every circumstance; and the prevailing feeling seemed to be, that though the Davy lamp might not be entirely perfect, it was their most useful instrument yet invented; but that it ought to be made secondary to vensitations and discipline.

RAILWAY CONTRACTS.—A few decreases OVER-WINDING IN COAL-PITS—SAPETY-LAMPS.—At the Mancheological Society, on Tossday (Mr. J. Dickinson, the Government Inspector, in air), Mr. Whitehead exhibited an ingenous model, designed to prevent over-win

RAILWAY CONTRACTS.—A few days since tenders were received for the supply of 40 locomotives for the Russian railways. There were numerous offers from English and French manufacturers, but the contract, it is said, is given to Cockerill and Co., of Liegs, who presented the lowest tender—63,000 fr. the engine. A manufacturer at La Villette, near Faris, has obtained a contract for the supply of 500 wagons for the railway from Alisante to Seville. Another Faris manufacturer has obtained a contract for the supply of 1200 tons of iron for the same company.

With ast week's Journal we gave a SUPPLEMENTAL SHEET, in which appears Papers on the Utilisation of Blast-Furnace Gases (illustrated) —"Old Bones"—Ancient Geology—Composition Steel and Indiarubber Springs (illustrated)—Mining Machinery: Boring and Winding Apparatus (illustrated)—Safety Apparatus for Mine Shafts (illustrated)—The West Polmear Mining District (with plan)—Facts on the Nature and Action of Steam—Increasing Value of British North America—Productive Cargo of Coal—Literary Notices: Handy Book of Patent and Copyright Law, English and Foreign—Coal Fields of Indiana—Iron: its History, Properties, and Processes of Manufacture—Railway Construction—The Engineer's Manual of the Hydrometer—We shall publish a Supplemental Super with next week's Journal

—Railway Construction—The Engineer's Manual of the Hydrometer.

We shall publish a Supplemental Sheet with next week's Journal, in which will appear—Papers on the Mineral Oils of America; the Copper Mines of Lake Superior (Description and History of the Portage Lake District); Account Keeping and Management of Mines; Coal Production in our Colonial Possessions; a Working Plan of the Great North Tolgus Mine; Description and Engraving of Walcott's Patent Retort Bed, for Economising Fuel; and several other matters now unavoidably postponed.

The Mining Market; Prices of Metals, Ores, &c.

м	ETAL MARKET-LONDON, May 3, 1861.
OFFEE. £ s. d. Sest selectedp. ton 101 0 0- Fough cake, 98 0 0- Citle, 98 0 0- Surra Burra, 102 10 0- Soppapo, 97 0 0- Soppapo, 97 0 0- Soppapo, 97 0 0- Soppapo, 97 0 01 1- Soptapo, 90 11 - Soptapo, 90 11 - Soptapo, 90 11 - Soptapo, 90 0 11 - Soptapo, 90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BRASS Fer. lb.
BARS, Welsh, in London	QUICKSILVER 7 0 0 p. bottle
Ditto red lead 23 0 0-24 0 0 Ditto white 30 0 0-31 0 0 Ditto patent shot 24 0 0-24 10 0 Spanish 20 5 0-	

REMARKS.—The market has slightly flattened since last week, and most metals are rather less firmly held; there is still, however, a very fair business doing. The unfortunate state of things in America has contributed to depress the market, but should the demand for India and the Continent

to depress the market, but should the demand for India and the Continent continue to improve, no doubt this reaction will give way to brisker feeling. COPPER.—English cake, tile, and manufactured continue without alteration at present; an advance was rather anticipated by some early in the week, but the demand as yet is certainly not sufficiently good to justify smelters in putting the price up. A rise of 3L per ton in the standard of ores was announced by telegram to-day. The enquiry for foreign descriptions is steady, but no higher prices are obtainable. Burra Burra, 102L 10s.; Kapunda, 103L; Chili, 88L, in Liverpool. Yellow metal in fair request. IRON.—Orders for railway bars are anything but plentiful, and prices remain as last quoted. Merchant bars have again receded about 2s. 6d. per ton, chiefly on account of the dulness in rails. Contracts have been made during the week as low as 5L.17s. 6d., f.o.b. in London. This price, according to the present rate of pigs, cannot be very remunerative to ma-

made during the week as low as 5t. 17s. 6d., 15.05. In London. This price, according to the present rate of pigs, cannot be very remunerative to manufacturers, such price being accepted merely to keep the works going until the advent of better times. Staffordshire kinds of good known brands are in tolerable request, but there is no market at present for the inferior descriptions. Swedish bars are now quoted 11t. to 11t. 5s.; good specifications are saleable at these prices to a limited extent. Scotch pigs show a declining tendency, in consequence of the American news: mixed numdeclining tendency, in consequence of the American news; mixed num

a declining tendency, in consequence of the American news; mixed numbers quoted 48s.

Lead.—English pig inactive; most makers, however, have sufficient work on their hands to enable them to avoid lowering the market by undue pressure for orders: 20l. 15s. for ordinary qualities, and 22l. 5s. for WB.

Sheets and shot both very dull of sale; Spanish pig in supply at 20l. 5s.

Spelter.—This metal is quiet just now, but maintains a steady position; holders, for the most part, are looking for higher rates, and as arrivals take place but slowly, it is not unlikely, as the export demand increases, that their expectations may be realised. The stock now in London is 4125 tons, having increased only 145 tons since the corresponding period last month. Zine in steady demand at 24l.

Tin.—In English descriptions the advance which was announced on the 23d ult. has been well maintained; smelters are well supplied with orders. Foreign has, during the week, given way to the extent of 10s. to 1l. per ton. Straits, 124l. 10s.; Banca, 128l. Advices from Amsterdam state that the market there is improving, and sales reported at 75 fls., and the stock now held on warrants 32,266 slabs, against 33,155 slabs last year: 136,362 slabs held by the Trading Society for the annual Dutch sale.

Tin-Plates still assume an upward tendency, good brands now quoted 20s. 6d. for IC coke; 29s. for charcoal.

Steel.—Market quiet, without alteration in prices for Swedish keg and faggot.

faggot.

GLASGOW, MAY 2.—Following are the exports of pig-iron, foreign and coastwise, from Scotland during April, compared with the same month of the last eight years; also the average price and the number of furnaces in blast in that month in those years respectively:

Shipments. Average price. Furnaces in blast.

April, 1861 Tona 72,791 48s. 0d. per ton 123

1860 58,930 54s. 0d. 126

1859 73,180 51s. 3d. 127

1858 68,732 53s. 3d. 127

1858 68,732 53s. 3d. 126

1857 72,655 75s. 0d. 129

1856 70,339 74s. 0d. 97*

1856 70,339 74s. 0d. 97*

1855 68,208 60s. 0d. 121

1857 88,567 79. 6d. 121

* A strike among the colliers and miners caused several furnaces to be stopped this month.

WOLVERHAMPTON.—From Mr. S. Griffiths' "Iron Trade Circular:" Current prices of pig iron (corrected to Thursday evening):—Staffordshire cold blast, 4l. 5s.; Old Windmill End Mine, Nos. 1, 2, and 3, melters, warm air, 4l.; Old Windmill End Mine Forge pig-iron, 3l. 7s. 6d. to 3l. 10s.; best native hydrate pigs, 3l. 10s. to 4l.; first-class All Mine grey forge pigs, 3l. 5s. to 3l. 10s.; Seend grey forge mine pig-iron, 3l. to 3l. 2s. 6d.; Seend mine melting pigs, 3l. 10s. to 3l. 15s.; good mine pigs, with a modicum of flue cinder, 2l. 10s. to 2l. 15s.; mine pigs, deteriorated by cinder, 2l. 7s. 6d. to 2l. 12s. 6d.; Cleator Moor hematites, 3l. 6s. 3d. to 3l. 7s. 6d.; Barrow hematites, 3l. 6s. 3d. to 3l. 7s. 6d. which the sentites 3l. 6s. 3d. to 3l. 7s. 6d. to 2.1.12s. 6d.; Cleator Moor hematites, 3l. 6s. 3d. to 3l. 7s. 6d.; Barrow hematites, 3l. 6s. 3d. to 3l. 7s. 6d.; Workington hematites, 3l. 6s. 3d. to 3l. 7s. 6d.; grey forge cinder pig-iron, 2l. 5s. to 2l. 10s.; white forge cinder pigs, 2l. 2s. to 2l. 7s. 6d.; ordinary melters, Nos. 1, 2, and 3, 2l. 12s. 6d. to 2l. 17s. 6d.; superior makes of mine melting iron, 3l. 2s. 6d. to 3l. 15s., according to make and quality. The above prices are all delivered on to the wharves at the South Staffordshire manufactories. Gadlys (Aberdare, South Wales), No. 1 foundry pig, cold blast, 4l. 10s. fo.b. Favourite Shropshire and Forest of Dean brands, hot blast, 3l. 12s. 6d. to 3l. 15s., delivered; northern hematites, from 3l. 2s. 6d. to 3l. 7s. 6d., according to brand or quality.

No. 1 foundry pig, cold blast, 42. 10s. fo.b. Favourite Shropshire and Forest of Dean brands, hot blast, 32. 12s. 6d. to 32. 15s., delivered; northern hematites, from 32. 2s. 6d. to 32. 7s. 6d., according to brand or quality.

Coal Market.—On Monday, the arrival of 103 ships caused a dull market for house coals, and prices were barely supported. Hartley's and manufacturers' also a slow sale, and rather lower in price. Best house coals, 18s. 3d. to 19s.; seconds, 15s. 6d. to 17s.; Hartley's, 15s. 6d. to 16s. 6d.; manufacturers', 12s. 6d. to 15s. per ton.—On Wednesday, 24 arrivals. The market for house coal was still further depressed, and prices suffered a reduction of from 3d. to 6d. per ton. In Hartley's and manufacturers' no change. Best house coals, 17s. 9d. to 18s. 6d.; seconds, 15s. 6d. to 16s. 6d.; Hartley's, 15s. 6d. to 15s.

per ton.—On Friday, 47 arrivals. The tone of the market was heavy for all descriptions of coal, at Wednesday's prices. Hetton Wallsend, 18s. 6d.; South Hetton Wallsend, 18s. 6d.; Belmont Wallsend, 15s. 3d.; Harton Wallsend, 15s. 6d.; Hartley's, 15s. 6d. to 16s. 6d.; Tanfield's, 13s. per ton: 28 cargoes unsold; 80 ships at sea.

The improved aspect of the metal trades generally has not been without meficial effect upon the value of mining shares. The standard paid for opper ore at the Cornish ticketing, on Thursday, shows an improvement of about 5 per cent.; the difference being equal to more than 1d. per lb.

beneficial effect upon the value of mining shares. The standard paid for copper ore at the Cornish ticketing, on Thursday, shows an improvement of about 5 per cent.; the difference being equal to more than 1d. per lb. upon manufactured copper, and unless the new copper smelting company, now in course of organisation, by acting in opposition to the firms already established, and by being compelled to make a market for their manufactured produce, prejudicially influences the market, a period of continued activity may be anticipated. Smelting cannot be carried on without a large amount of money being sunk in the first instance, and an enormous floating capital maintained; and if mine adventurers anticipate that the necessary funds will be advanced for the benefit of the miners, or under any other circumstances than that there is a prospect of realising profits equal to those realised by existing smelters, their hopes will not be borne out. For some time past the standard has been spek as could not reasonably be complained of; and now that the standard is advancing, and the prospects of a continued demand for the metal are all that can be desired, the profits of the adventurers in copper mines cannot fail to increase. Nor is the prospects of increased profits less cheering for th mines, since the upward movement in price has already commenced, and a further rise is generally anticipated. With copper and tim is nate, a position the entire mining interest naturally feels encouragement; lead and other metallic products usually following in the course of the more valuable metals. It is probable that to these circumstances we may attribute the fact that the Minino Stanze Manuter has been particularly active all the week.

East Grenville shares have been largely dealt in as high as 70s. The average price during the week has been from 62s. 64 to 67s. 6d. Yesterlay (Friday) they opened firm at 64s, bayers, but late in the day declined in rice. A tolegram arrived late, stating that a patch of granite was in the lode, that i

he mine has greatly improved. -

On the Stock Exchange a moderate amount of business has been transacted in Mining Shares during the week. The prices officially recorded in British Mining Shares were:—Alfred Consols, 2\frac{3}{2}; Hingston Down, 2\frac{1}{2}; Sortridge Consols, \frac{1}{2}; Stray Park, 35\frac{1}{2}; Lady Bertha, 1\frac{1}{2}; Great South Tolgus, \frac{5}{2}; Providence, 39\frac{1}{2}; East Basset, 98; East Caradon, 19; West Caradon, 68\frac{3}{2}; Wheal Trelawny, 13\frac{1}{2}, 1\frac{3}{2}. In Colonial Mining Shares the prices were:—Great Northern Copper of South Australia, 1\frac{1}{2}, 1\frac{1}

can, 6½, 6½, 6½, 6½, 6½, 6½.

St. John del Rey, Great Northern, General, Kapunda, and United Mexican are the only Foreign and Colonial Mine Shares that have been dealt in during the week "outside," and these leave off nearly at previous quotations. Great Northern shares have fluctuated between 1 and 1½, that being the closing price. The first parcel of ore from the mines will be sold at Swansea on the 14th inst. St. John dey Rey, 32½ to 32, firm. General shares have been done at 24½, and leave off 24 to 24½. Kapunda shares, 3½ to 2½, buyers at 2½. United Mexican shares have fluctuated between 6 and 6½, and leave off 6½ to 6½. Worthing shares are quoted 13s. 6d. to 14s. 6d.; Port Phillip, 15s. 6d. to 16s.

Shares on the Dublin Market have been quiet during the week—Connorree, 45s. 6d. to 47s.; General Mining Company for Ireland, 5½; Mining Company of Ireland, 14½.

ng Company of Ireland, 144.

The following dividends have been declared during April:
 The following dividends have been declared during April:—
 Mines.
 Per share.
 Amount

 -West Wheal Seton.
 £10 0 0 £4,000
 £0 0 0 £4,000

 -Dolcoath
 8 0 0 2,864
 2,864

 -Wheal Clifford.
 5 0 0 2,500
 2,500

 Folberro
 0 15 0 1,329
 1,329

 _Lisburne
 3 0 0 1,200
 1,000

 _Wheal Basset
 2 0 0 0 1,024
 2,000

 _Cefn Cwm Brwyno
 4 0 0 800
 800

 _East Darren
 300
 300

At Camborne Ticketing, on Thursday, 2871 tons of ore were sold, realising 19,1877. 138. The particulars of the sale were—Average standard, 1341. 168.; average produce, 7; average price per ton, 61. 14s.; quantity of fine copper, 200 tons 18 cwts. The following are the particulars:—Date. Tons. Standard. Produce. Price per ton. Ore copper. April 4. 3831. £135. 6.0 .5%. £5. 3.6 .£38. 6.0 .11. 3397. 131. 7.0 .64%. 6.3.0 .90.13. 0.0 .18. 4675. 133.9.0 .64%. 6.3.0 .90.13. 0.0 .18. 4675. 133.5 0.0 .64%. 6.0.0 .91.14. 0.0 .95.10. 0.0 .19. 257. 2402. 133.16.0 .64%. 6.0.0 .91.14. 0.0 .39.10. 0.0 .19. 2571. .134.16.0 .7.0 .614.0 .95.10.0 .0 .95.10.0 .0 .0 .95.10.0 .0 .

Total£14,017 0 0

Compared with last week's sale, the advance has been in the standard 3l. 10s., and in the price per ton of ore about 4s. 9d. Compared with the corresponding sale of last month, the advance has been in the standard 6l., and in the price per ton of ore about 8s.

and in the price per ton of ore, about 3s. 3d. Of the 1029 tons sold on Tuesday, 783 tons were from British mines, which gave an average produce Ruesday, 783 tons were from British mines, which gave an average produce of 9 3-16, and sold at an average standard of 117l. 5s.—8l. 9s. 4d. per ton of ore. The remaining 246 tons were foreign ores, which gave an average produce of 14½, and sold at an average standard of 109l. 19s. 6d.—13l. 5s. 8d. per ton of ore. On May 14 there will be offered for sale 1427 tons of ore, from Knockmahon, Berehaven, Great Northern of Australia, Brada United, Worthing, and elsewhere.

The following are the Government Returns of the exports of articles identified with mining, the produce and manufacture of Great Britain, for the three months ending March 31, 1861; and also as compared with the three months ending March 31, 1860; extracted from the "Accounts relating to Trade and Navigation," published by the Board of Trade:—

Declared Value for the Three Months ending March 31. 1860.					
Coals and cultm	DECLARED VALUE FOR THE !		ONTHS ENDING		D
Hardwares and cutlery					
Machinery :			3		
Machinery :	Hardwares and cutlery	816,089	********	731,450	£84,639
Steam-engines £172,705 £209,098 Other sorts 489,988 = 662,693 540,978 = 750,076 Total £2,096,458 £2,139,371 Metals:—Iron—Pig £145,989 £167,700 Bar, bolt, rod 513,389 334,519 Railway 641,676 605,782 Wire 65,556 58,500 Cast 137,813 107,971 Wrought 672,118 = 2,176,541 564,635 = 1,889,107 287,432 Steel 213,310 120,614 49,874 Copper -Unwrought 213,310 203,463 40,897 209,018 Wrought 45,814 = 639,915 46,830 = 430,897 209,018 Brass 36,547 43,632 43,682 -16,284 Ore 42,093 = 134,967 26,784 = 116,668 -16,390 Plates 371,542 = 439,411 166,915 = 233,305 206,106 Grand total £5,741,684 £5,121,631 £887,071 Less increase—coals and culm, 40,1691, ; machinery, 87,3831, ; brass, 69851, ; lead, 82,4811 217,018 <td></td> <td></td> <td></td> <td></td> <td></td>					
Other sorts 489,988 = 662,693 540,978 = 750,076 Total Z2,996,458 Z2,139,371 Metals:—Iron—Pig £145,989 £187,700 Bar, bolt, rod 513,389 384,519 Railway 641,676 88,500 Cast 137,813 107,971 Wrought 672,118 = 2,176,541 564,635 = 1,889,107 287,434 Steel 218,725 168,851 49,574 Copper –Unwrought 213,310 120,614 Sheets 390,791 263,463 Wrought 45,814 = 639,915 46,830 = 430,897 209,018 Brass 36,547 43,632 - 43,632 Lead.—Pig 91,994 89,784 Ore 42,093 = 134,987 26,784 = 116,568 — Tin—Unwrought 67,369 68,390 Plates 371,542 = 439,411 166,915 = 233,305 206,100 Grand total £5,741,684 £5,121,631 £837,071 Less increase—coals and culw, 40,1691.; machinery, 87,3831.; brass, 69851.; lead, 82,4811 217,018			£209.098		
Total £2,096,458 £2,139,371 Metals:—Iron—Pig £145,989 £187,700 Bar, bolt, rod. 513,389 334,519 Railway 641,676 605,782 Wire 65,556 58,500 Cast 157,813 107,971 Wrought 672,118 2,176,541 564,635 1,889,107 287,433 Steel 218,725 168,851 49,874 Copper—Unwrought 213,310 120,614 Sheets 300,791 263,463 Wrought 45,814=639,915 46,830 430,897 209,018 Brass 300,791 36,547 43,632 430,897 209,018 Brass 36,547 41,684 116,668 116,		669 699		750.076	_
Metals:—Tron—Pig £ 145,989 £187,700 Bar, bolt, rod 513,389 384,519 Bar, bolt, rod 513,389 384,519 Rallway 641,676 605,792 Wire 65,566 38,500 Cast 137,813 107,911 Wrought 672,118 - 2,176,541 664,635 - 1,889,107 287,434 Sheets 380,791 120,614 49,874 Wrought 45,814 - 639,915 46,830 - 430,897 209,018 Brass 36,547 43,532 - Lead—Pig 91,934 36,547 43,532 - Cro 42,033 - 134,987 26,784 - 116,568 - Ore 42,033 - 639 65,390 116,568 - Plates 371,542 - 439,411 106,915 - 233,305 206,106 Grand total £5,741,684 £5,121,631 £87,071 Less increase—coals and culm, 40,1691; machinery, 87,3831; brass, 69851; lead, 82,4811 217,018	Other sorts 200,000 =	002,000	010,010-		
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#200 OKO					
Total decrease£620,053	Total decrease				£620,053

At the Brynford Hall Mine meeting, on Tuesday (Mr. Page in the chair), the accounts showed—Mine cost, Jan. to March, 7321. 2s. 3d.; dues, 481. 5s. 9d.; interest and discount, 4f. 8s. 8d. = 784f. 17s. 1d.—Ores sold, 580f. 12s. 8d.: leaving debit balance, 2041. 4s. 5d. The balance of assets over liabilities was 313f. 7s. 3d. The report of Capt. T. Pierce, the agent, stated that he expected to have a new rock of ground soon. At Herward United Mine meeting, on Tuesday, the accounts showed—Mine cost, Jan. to March, 785f. 8s. 6d.; royalty on ore sold, 59f. 16s. 5d.; interest and discount, 7f. 10s. 6d.—852f. 15s. 5d.—Ore sold, 690f. 16s. 9d.: leaving the debit balance. 162f. 4s. 8d. The balance of liabilities over assets was 85f. 11s. 10d. Acall of 3f, per share was made.

1621. 4a. 8d. The balance of liabilities over assets was 50f. 115. 1021. Actail of of per share was made.

At the West Tolcarne Mine meeting, on Wednesday (Mr. R. Hallett in the chair), the accounts showed—Balance last audit, 1542f. 17a. 2d.; mine cost, Dec. to Feb., 397f. by 5. 1d.; merchants' bills, 144f. 6s. 3d., 2094f. 18a., Calls received, 1670f. 7s.; interest account, 18a. 3d.: leaving debit balance, 413f. 7s. 9d. The balance of liabilities over assets was 166f. 2s. 9d. The report of the agent stated that the engine-shaft was down 11 fathoms below the adit level, which had been sunk through some good ore ground, at times worth 30f. per fathom. The lode at present was splift in two parts, each producing good stones of ore. In about a month from the present time they would be in a position to drive east and west in the 12, and judging from the dip of the ore in the shaft they would'only have a short distance to drive to reach it; to accomplish that object no time would be lost. They were continuing the cross-cut to intersect the known lodes. At their next meeting they looked forward to be in a position to report the opening up of some good ore ground, as well as place the sale of ore to the credit side of the book—the inter might be relied upon.

At the North Downs Mine meeting, on Wednesday (Mr. Hallett in the chair), the accounts showed a credit balance of 163f. 14s 3d. The report of the agents and the details of the meeting appear in another column.

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At the North Downs Mine meeting, on Wednesday (Mr. Hallett in the chair), the accounts showed a credit balance of 163t, 14s 3d. The report of the agents and the details of the meeting appear in another column.

At the North Minera Mine (special) meeting, on Monday (Mr. Lanksheer in the chair), the resolutions were to the effect that the North Minera set be divided into two parts, reserving to the present company Pagh's workings and the adjacent portion; for the purpose of working the remaining portion of the set a company, to be called the Deep Level Lead Mining Company, is to be formed, the capital of which will be 10,0001, divided into 2000 shares of 5t. each, which shall, by the Articles of Association, be considered to be paid up to the extent of 2t. 10s. per share, such shares to be alloted pro rate to the shareholders, who, upon the day of registration of the proposed company, shall hold shares in the present company.

At Wheal Hendra meeting, on April 22, the accounts showed a debit balance of 138t, 8s. 3d. A call of 10s. per share was made. Captain King's salary was fixed for the future at 5t. 5s. per month; and thanks voted to Mr. Trethewy for the "very efficient manner in which he put up the engine." Capt. R. King, in concluding his report, say "Reviewing the position and prospects of the mine, now the machinery is fixed, and we have pitwork for another sump, and everything in fair working order, our expenditure will in future be less, and that laid out in opening up tin ground; our expenditure will in future be less, and that laid out in opening up tin ground; our expenditure will fin future be less, and that laid out in opening up the machinery is fixed, and we have pitwork for another sump, and everything in fair working order, our expenditure will future be caused to the meeting, and

for new deeds of 21 years, from the date of surrender of the old leases, on the same terms and conditions as the original grant of the sett.

At South Wheal Kitty meeting, on Tuesday, the accounts to the end of Febrsary showed—Expenses in obtaining leases, 3001.; labour cost, 2931. Ils. 2d.; merchants' bills, 1991. Ils. —7921. Ils. 2d.—Calls, 5001.: leaving debit balance, 2921. Ils. 2d. A call of 10s. per share was made. The agents are to look out for a 24-inch (or more) rotary-engine. Capts. S. Mitchell, J. Borlass, and S. Mitchell, Jun., reported upon the various points of operation. Their confidence of ultimate success in the undertaking

various points of operation. Their conneence of ultimate success in the undertaking remains as strong as every Mine meeting, on Tuesday, the accounts for the two months ending February showed—Balance last audit, 1951. 8s. 3d.; merchants' bills 4811. 8s. 2d.; mine cost, 11801. 3s. 11d.; dues, 921. 10s. 8d. = 18591. 11s.—Copper ore sold 16631. 16s. 2d.; leaving debit balance, 1901. 14s. 10d. The loss on the two months' workings was 851. 6s. 7d. The costs of these two months contribution of the steam. whim, the crusher and houses for the same, and surface work the crection of the steam. whim, the crusher and houses for the same, and surface work monthing in all to a sum of over 3501. After April the extras will be discharged, after contribution the corets will be considerably reduced.

amounting in all to a sum of over coor.

which the costs will be considerably reduced.

At the North Hallenbeagle Mining Company meeting, held at the Albion Hotel, Lecds, on April 29 CMr. F. C. Gilbert, blob Edge, and Thomas Bell were re-elected, and Messrs. W. H. Wilks and G. Boddy were elected directors for the ensuing year. Mr. Edward Bolton was appointed auditor of the company. The directors reported that in addition to the well-known and valuable lodes which the North Hallenbeagle possessed, they might refer to the discovery made iodes which the North Hallenbeagie possessed, they might refer to the discovery made by the Tregullow Consols Company within the boundary of this sett of a rich lode of tin at a depth of only 7 fms. The shareholders may be congratulated upon this discovery. Capts, C. M. Thomas and James Crase reported that no operations have hitherto been carried on below the adit level, consequently all our operations for a considerable period will be carried on at very shallow depths, and at a comparatively light working cost, an obvious advantage over deep and expensive mines. As soon as the engine is at work operations will be carried on upon the north copper lode, under the course of ore gone down in the adit, and which at that shallow point realised upwards of 20001, worth of ore, and the three parallel copper lodes to the south explored. Contemporaneously with these operations proper workings will be opened upon the Berries great this idee, and the other tin lodes of value, and when all these lodes are fairly developed, having regard to their number, their known productiveness, the congenial stratification in which they are smbedded, and the district in which the mine is situate, no doubt can be entertained of realising astisfactory and successful results.

alising satisfactory and successful results.

At East Releath Mine meeting, on April 25 (Mr. S. Hey in the chair), At East Releath Mine meeting, on April 25 (Mr. S. Hey in the chair), the committee of investigation reported that the accounts of the mine were in a most confused and incomplete state; that there had been no regular system of book.-keeping, and they do not find that any cash-book has been kept, no banking account has been opened, and there does not appear to have been any check whatever upon the expenditure. All the pald officers of the company were dismissed (Mr. Blinckburn, the solicitor, being empowered to act as purser pro tem.), and they were authorised and directed to deliver to the committee were authorised to appoint the necessary officers, and to act as they deem most advisable to obtain an assignment of the lease of the mine from the present lessees to the comm littee, as trustees for the company. They were further empowered to discharge outstanding liabilities, and to carry on the mine with vigour and economy. The nine is held under a lease granted by Sir R. H. Vyvyan to Capit. Faul taby, the father of the purse r, and to one Timothy Smith. The solicitor to the committee advised that they held the lease for the benefit of the company. At first such a dood was promised,

but after negociations between the solicitors, it was found impossible to obtain the deed except upon terms involving the adoption of the purser's accounts, and the payment to him of a large sum which he claimed as balance due to him, to which the committee could not assesst. Under these circumstances steps are to be taken to obtain the lesse. The present appearances of the mining ground are reported to be of a favourable character, and the committee are of opinion that, with judicious and economical management, there is every prospect of the undertaking becoming prosperous and resumerative.

could not assent. Under these circumstances steps are to be taken to obtain the lease. The present appearances of the mining ground are reported to be of a favourable character, and the committee are of opinion that, with judicious and economical management, there is every prospect of the undertaking becoming prosperous and remunerative.

At Gardidna Mine meeting, on April 24 (Mr. J. G. Plomer in the chair), the accounts for the three months ending Feb., showed—Balance last audit, 1428; 3s. 3d.; mine cost, 1819. fs.; merchante' bills, 666!. Is 1d. =2913. 9s. 4d.—Calls, 1433. 1.2s.; leaving debit balance, 1479. 17s. 4d. A call of 1l. 9s. per share was made. Captains James Rowe and Paul Prisk reported upon the various points of operation. There is about 450!. worth of ore at surface.

At Stenecoses and Mawia United Mines meeting, on April 15, the accounts abowed—Mine cost, merchante' bills, and sundries, 845?. Is. 5d.—Ralance last audit, 64l. 12s. 4d.; calls received, 500?. ! leaving debit balance, 280f. 9s. 1d. A call of 10s. per share was made. Measrs. Moyle, Tyack, and Roach were re-elected the financial committee. Capt. N. Reed reported upon the various points of operation in the mine.

At Wheal Mary Emma meeting, on April 25, the accounts showed a debit balance of 5il. 12s. 4d. A call of 9d. per share was made. Capt. W. Doble says: "I examined two lodes further north that a party working the adjoining sett is now opening, a little distance from the Mary Emma sett; they are looking well, and producing good stones of tin; these lodes run more than a mile through the Mary Emma sett, and can be worked to the depth of fully 50 fms. without machinery. I have no doubt that ere long we shall find it of importance."

At the Crane Mine (Camborne) meeting, on April 25, the accounts showed a debit balance of 493? 19s. 7d. A call of 3cs. per share was made. The proceedings were most satisfactory; the proprietors present represented 605 out of 966 shares. The 70-inch cylinder engine was set to work, and the mine forked 10

mines in the district.

At Great Wheal Fortune meeting, on April 23, the accounts for Oct., Nov., and Dec. showed.—Labour cost, 2791/. 13s. 1d.; merchants' bills, 1151/. 13s. 1d.; new condensing work for 70-in. cylinder pumping-engine, 119/. 13s.; interest and commission, 24/. 5s. 9d. =49671/. 4s. 1d..—By sales of tin ores, 4671/. 9s. 20.; mundig. 14/. 12s.; copper ore, 68/. 18s. 10d. (less lords' dues, 192/. 17s. 7d.): making profit on the three months' working, 374/. 18s. 1d.; add balance from last account, 119/. 16s. 9d.—leaving to credit of mine, 494/. 14s. 10d. Capt. R. Pryor, J. Daniel, and J. Hosken, reported on the mine—"The prospects since the last meeting are considerably improved, consequently the sales of tin will be increased. The tribute department consists of 42 pitches, employing 101 men, at tributes varying from 7s. 6d. to 14s. in 1/., at 60/. per ton for tin—total employed, 396.

At the Nantcos and Penrhiw Mine meeting, on Thursday (Mr. J. H. Murchlaon in the chair), the report of the managing director was read, which appears in

n in the chair), the report of the ma

auother column.

At the North Wrey Mine meeting, on Tuesday (Mr. C. R. Wessel in the chair), the accounts for the three months ending March, showed—Calls and capital resisted, 22971. 16s.—Expenditure to the end of Dec., 18081. 7s. 4d.; mine cost, merchants' bills, and sundries for March quarter, 4861. 7s. 5d.: leaving credit balance, 3l. 1s. 3d. Calls are in arrear to the amount of 1771. 4s. A call of 2s. 6d. per share (except on 500 shares not liable) was made. The directors report that there are many points with reference to the mine upon which they and the shareholders may congratulate themselves; and an extension of ground much required on the north has (entirely through the energy of Mr. Balcomb) been obtained, Lord Ashburton liberally granting this extension, which is 180 fathoms, on the run of the lodes beyond the former boundary, free of all charge.

the energy of Mr. Balcome) been considered, and which is 180 fathoms, on the run of the lodes beyond the former boundary, free of all charge.

At Willow Bank adjourned meeting, held yesterday, it was resolved to accept the surrender of 360 shares, on all calls made being paid and a proper document signed. It was also resolved to take steps to recover the calls in arrear, and to resume thelepoperations in the western part of the mine as soom-as possible. Another general meeting is to be held not later than two months hence.

At South Caradon Wheal Hooper meeting, on Tuesday (Mr. F. Combs in the chair), the accounts showed—Balance last audit, 861, 2s. 9d.; mine cost, merchant's bills, and sundries, 7571, 4s. 5d.—8437, 7s. 2d.—Calls received, 6891, 2s. 11d.: leaving debit balance, 1544, 4s. 3d. A call of 3s. per share was made. Captains W. C. Cock and Francis Pryor reported upon the mine. Capt. Cock has never seen the mine, upon the whole, looking so promising, and suggests that the same points be continued; and Capt. Pryor concurs with this suggestion.

At Wheal Pollard meeting, on Tuesday (Mr. J. Hutton in the chair), the accounts showed—Balance last audit, 901, 6s. 11d.; calls received, 1761, 16s. 9d. 2571, 3s. 8d.—Mine cost and sundries, 2601, 14s. 6d.; leaving credit balance, 61, 9s. 2d. The liabilities are 9101, 9s. 5d., to meet which there are arrears of calls 5431, 2s. 6d., and the balance as above, 61, 9s. 2d. Acall of 3s. per share was made. Capt. W. C. Cock reports that very little has yet been done towards proving this extensive sett, which, from its situation, must contain a great many lodes, some of which are among the most productive in the neighbouring mines. He considers there are several points well deserving a spirited trial, but as it would increase their monthly cost he recommends that the points now prosecuting only be continued for the present.

The Bryn-Arian Mining Company sold and shipped, on April 28, 38 tons.

The Bryn-Arian Mining Company sold and shipped, on April 28, 32 tons cwts. of lead ore, to Messrs. Sims, Willyams, Nevill, and Co., Llanelly, at 131. 8a, per m, and 6 tons 13 cwts. 2 qrs. of copper, from the Pwil Roman, at 81. 1s. per ton.

The Copiapo Smelting Company quote their copper at 971. per ton. The Copiapo Smelting Company quote their copper at 97l. per ton.

At the Central American Mine (annual) meeting, on Monday (Mr. John
Madonnell in the chair), it appeared that the costs in England and Central America
during eight months ending August, 1860, amounted to 13,639l., and the proceeds of ore
sold in England to 19,768l., showing an increase of expenditure of 882l. But during that
period, and subsequently, there had been a considerable addition to the stock of ore.
The directors and managers had the greatest confidence in the prosperous results of the
undertaking. In England at the present time there was an excess of liabilities over
assets of about 9000l., which would, however, be soon cleared off if the remittances of
rich sliver were moderately good. Details in another column.

At the English and Canadian (annual) meeting, on Monday (Mr. A.
Morrison in the chair), he report of the directors stated that in 1858-9 their sales of ore
had realised only 722l., but that in the past year the amount had been increased to 1539l.,
besides a parcel of 36 tons lying at Quebec. The directors had been authorised to raise
an additional capital of 800l., to carry out the plan of their mining superintendent. The
retiring directors were re-elected. Details in another column.

retiring directors were re-elected. Details in another column.

At Lady Eliza Mine meeting, to be held this day (Saturday) the accounts (as audited by Messrs. Cooper Brothers and Co.) show—Lease of mine, 46451. 17s.; sundry expenditure, 14601. 6s. 1cl.—16101. 3s. 11d.—Calls received, 5611. 13s.; forfeited shares sold, 461. 6s.: leaving debit balance, 3984. 4s. 11d. The directors report that the mine is in that position that a short time will prove its certain success; and they remind the shareholders that there are soveral other valuable lodes known to be near the present workings, which may any day lead to more important discoveries. The district is almost untried, with the exception of the Nanty-Mwys portion, which has been making immense profits for centuries, and at one time had a course of solidore 9 feet wide. At Lady Eliza there are about 12 tons of lead ore ready for crashing. Several directors will retire, in place of whom others will have to be appointed.

prointed.

LEEDS, MAY 2.—The Mining Share Market has been active during the

Leeds, May 2.—The Mining Share Market has been active during the week, and quotations have been well maintained: —Brea Consols, 20s. to 22s.; Hebden Moor, 2 to 2½; Merryfield, 4s. to 5s.; Nidderdale, par; North Hallenbeagie, 2 to 2½; Mersheydale, 7s. 6d to 9s.

At Willed Henry (Helvellyn) Lead Mining Company extraordinary general meeting, held at the Griffin Inn, Leeds, on Monday, it was resolved to wind-up the company voluntarily, in consequence of the exhaustion of the capital. The directors expressed to the meeting their unaltered conviction that the mine contained wealth to amply reward perseverance, and keenly regretted the course they were compelled to pursue, at a time when, according to the opinion of high mining authorities, the outlay of but little more money—400t. to 1000t.—would, in all probability, enable them to prove the mine to be a productive concern.—John Gledhill and Co.

CÖRNISH PUMPING-ENGINES.—Capt. Lean gives the number of pumping-engines reported for March as 27. They have consumed 2262 tons of coal, and lifted 17.5 million tons of water 10 fms. high. The average duty of the whole is, therefore, 52,000,000 lbs. lifted 1 ft. high by the consumption of 112 lbs. coal. At Dolcoath they stop stem times, and the lift has been idle. At Carn Brea a pair of rolls are worked to crush the samples.

as been due. At Carn Breas a part of the Accidents.—At West Seton, on April 24, William Bailey was Mine Accidents.—At West Seton, business. Fourteen months since his sor tilled in the 30 fm. level by a fall of roof after blasting. Fourteen months since his son was killed in the same level from a similar accident. At Wheal Agnes (St. Cicer) a niner named Mildem fell down the shaft and was killed.

GOVERNMENT TESTING OF WELSH AND STAFFORDSHIRE IRON CABLES GOVERNMENT TESTING OF WELSH AND STAFFORDSHIRE IRON CABLES.—
A number of lengths of 2-in. chain cables, manufactured by Messrs, Wood Brothers,
of Chestor, and Messrs. Park and Co., of Dudley, have been tested at Woolwich. The
whole of the cables withstood the test well, and all bore nearly double the strain required
by the Admiratly regulations—namely, 72 tons; those of Messrs. Park's and Co. giving
way at 1213¢ tons, while those of Messrs. Wood resisted to 130 tons strain, and broke
only at that point. Messrs. Wood's cables were stated to be manufactured of Welsh
iron, and those of Messrs. Park of Staffordshire iron. The trials were pronounced to be
highly satisfactory, and extremely creditable to both firms, and the fullest approbation
was accorded to each of the exhibitors. Messrs. Park's links, of an oblong shape, were
accorded the preference, Messrs, Wood's being an oval form of link.

*, * As Mr. J. Y. Watson is on a tour through the mining districts, any communications upon the mines referred to in his "Notes" may be addressed to him through Messrs. Watson and Cuell, St. Michael's-alley, Combill London

BLENDE.

Tenders for 100 tons	of Blende, from Minera Mi	nes, Wrexham	on April 30.
Mines.	Tons. Price p	er ton.	Purchasers.
Lor 1	65 £3	7 6 R.	C. & W. Wright.
	35 4		ditto

	LEAL	OR	ES.		
	Sold on th	he 28th	April.		
Mines.	Tons.	Pric	e per	ton.	Purchasers.
Bryn-Arian	Sold on t	£	8 8	0	Sims, Willyams, & Co.
Frongoch	**** 50 .		12 12	6	Panther Co.
ditto	50 .		12 13	0	ditto
Cwm Erfin	60 .		15 0	0	ditto
East Darren	50 .	1	4 16	0	Sims. Willyams. & Co.
Tenders for 406 tons of Lead	Ore, from	the MIN	ERA N	INKS, W	rexham, on April 30.
Lot 1	100 .		13 2	9	Walker, Parker, & Co.
2	100 .	*****	13 2	0	disto
3					
4			13 2		Panther Co.
5					Walker, Parker & Co.
6	8 .		10 10	0	Panther Co.

						BI	LAC	K	T	IN.			
					1	Sold	on th	e 1	84h	April.			
Mines.	T	ons	c.	q.	lbs.	. 1	Price	per	ton		Amo	ant.	Purchasers.
Pedn-an-drea	••••	8	15	0	27			-		April.	620	14	6-Harvey & Co.
So: Carn Brea					23	Bold	on th	0 e 3	0 Oth	April.	476	14	0-Michell & Co.
Gt. Wheal Bu	ay	12	16	0	3		. 67	10	0		842 93		0-Bissoe Co. 4- ditto

Mine Bryn-Arian

COPPER ORES. Sold on the 28th April.

ons c. q. lbs. Price per ton. Purchasers.

6 13 2 0£8 1 0 Sims, Willyams, & Co.

April 10, and sold at Swansea April 30.

COPPER ORES.

Mines. Tons, Produce, Price, M	nes. Tons. Produce. Price.
Knockmahon . 73 858 £7 18 0 Dyli	ffe 55 756 £6 18 6
ditto 67 8% 8 0 0 Hun	terdon 42 75 6 9 6
ditto 95 958 8 18 0 dit	to 2 16 16 3 6
ditto 97 954 8 18 0 Salts	ma 26 512 4 2 6
	to 5 714 6 1 0
	to 2 234 2 13 0
	et Dovey. 18 2 1 10 0
	to 3 314 2 16 6
Virgin Gorda. 71 11% 11 5 6 Regu	lus 16 57% 54 16 0
ditto 69 1258 11 10 6 Aust	ralian 5 17 15 8 6
ditto 7 4014 37 14 0 Holy	ford 5 1216 11 2 0
	1 7% 6 2 6
TOTAL PRODU	
Knockmahon 591 £5396 15 0 Corb	t Dovey 21 £ 35 9 6
Virgin Gorda 147 1859 13 0 Regu	lus 16 876 16 0
Laxey 111 760 7 0 Aust	milian 5 77 2 6
Dyliffe 55 380 17 6 Holy	ford 5 55 10 0
Hunterdon 44 304 6 0 Oola	1 6 2 6
Saltana 33 142 16 0	

COMPANIES BY WHOM THE ORES WERE PURCHASED.

	Tons.	Amo	unt.	
Copper Miners Company	194	£1529	9	0
Freeman and Co	84	. 894	15	0
P. Grenfell and Sons	551/6	. 380	3	6
Sims, Willyams, Nevill, and Co	59	676	0	0
Williams, Foster, and Co	29716	2944	To .	. 9
Mines Royal Co	7114	. 1256	19	6
F. Bankart	85%	787	16	-3
C. Lambert	18	. 27	0	0
Sweetland, Tuttle, and Co	164	. 1399	6	0
Total	1029	£9.895	15	0

Copper ores for sale at Swanses, May 14.—Knockmahon 61, 60, 65, 66, 87, 42, 61, 51, 104—Berchaven 120, 108, 95, 110—Great Northern (South Australia) 41, 1, 1, 35—Burnt ore —African 43, 13—Brada United 34, 13, 6.—Turkish ore 35—Chili 32—Copper ore 31, 5.—Regulas 4, 4, 5.—Sydney regulas 3.—Worthly regulas 4. 4. Total 1477 tons.

			ERAGE							
		roduce.			rice.			Stan		
British	************	. 9 3-	-16	£ 8	9	4		£117	5	0
Foreign	•••••	. 14%	*****	13	5	8	*******	109	19	6
	Sale							£114	17	0
	Totals—British,		oreign, 24					ts.)		
	AVE	RAGES	OF LA	ST	SAL	E,		Star	adar	d.
	AVE	RAGES	OF LA	ST	SAL	E,		Star	ndar 7	d.
British	AVE	RAGES roduce.	OF LA	ST Pr	SAL nce.	E,		Star £115	7	1

COPPER ORES. Sampled April 17, a

Mines.		ons.	Pri	ice,		Mines.	Т	ons.	Pr	ice.	
	ord1			15	6	Wheal Basset		64	£7	12	(
ditto	********		3	10	6	ditto		46	. 7	11	-
ditto	*********		9	7	0	ditto		26	. 15	16	-
ditto	**********			5	6	North Roskenr				19	
ditto	********	77	8	4	6			45		19	-
ditto	********	75	6	10	6	ditto		21	. 3	9	-
ditto	*********	74	. 5	7	0	Pendarves				12	-
West Seton	*********		6	1	6	Basset				1	-
ditto	*********	75	6	4	0	East Basset		49		9	1
ditto	*********	66	8	1	0			44		3	-
ditto	********	63	9	4	0			37		9	4
ditto	********		8	8	0	Wheal Seton				17	-
ditto	*********		8	12	0	Pendarves				12	-
ditto	*********		3	2	6			45		9	-
ditto	*********		3	0	6	Tolcarne				17	-
ditto	***********		6	4	6			30		10	-
South Franc	208		4	12	6	Tresavean				18	1
ditto	***********		5	4	ä	ditto				9	1
ditto	*********		6	6	0	West Stray Park				5	-
ditto	**********		6	17	8	North Crofty	****	51		4	1
ditto	*********		9	0	6	ditto				10	1
ditto	************		4	15	6	Wheal Grenville		33			-
ditto			8	1	6	ditto				4	1
	8	63	4	3	6	ditto					1
ditto			13	18	0	Jackson's Ore		60			1
ditto				11	0	Wheal Harriett		55		3	1
ditto			9	7	0	South Basset				10	1
	t	68		15	6	East Grenville		28			1
IT ALCOH LINGS			-			RODUCE.		9	. 2	0	1
Wheel Cue	ord 600	.00	076	1	6		-		000		
West Saton	535			18	6	Tresavean	93	£			1
South Eman	es 290	**** 0	757		0	West Stray Park	92	****	667	0	
South Telem	290	**** I				North Crofty	90	****		13	1
Wheel Bear	3 216		922	0	6	Wheal Grenville	68		298	2	1
Wheal Basse	202		692	6	0	Jackson's Ore	00		9	0	-
Foot December	ar, &c 190		666	0	6	Wheal Harriett	55	****	394		1
East Basset	***** 130		284	8	0	South Basset	28	****	126		1
Wheal Seton	, dic 115		643	0	0	East Grenville	9		20	18	
Tolcarne	98	****	865	5	0						

COMPANIES BY WHOM THE ORES WERE PURCHASED.

Mines Royal Company	125	£ 705	9	6
Vivian and Sons	507%	3084		1
Freeman and Co	180	1347	14	6
Grenfell and Sons	41234	3332	3	10
Crown Copper Company	98	565	0	9
Sims, Willyams, and Co	372	3088	19	0
Williams, Foster, and Co.	398	2517	17	9
Mason and Elkington	41114	3340	5	0
F. Bankart	28		14	0
Copper Miners' Company	10		0	0
Charles Lambert	136	627	11	4
Sweetland and Co	1911/3	369	4	0
Total	9971	19,187	19	-
	1011 4	120,101	10	v

Copper ores for sale on Thursday next at Tabb's Hotel, Redruth.—Mines and parcels.—West Basset 424—Par Consols 311.—Alfred Consols, &c., 771—Great Wheal Afred 261—Tolyadden 235—Levant 226—West Alfred 183—Wheal Margary 146—Copper Hill 138—Wheal Buller 124—North Basset 120—East Alfred Consols 92—Great South Tolgus 90—East Rosewarne 84—Wheal Ama 70—South Creuver 61—East Carn Bras 56—Wheal Agar 54—West Trevelyan 41—Cuddra 30—Boiling Well 25—Clijah and Westworth 25—Wheal Messer 24—Wheal Manulli 20—Rosewarne Consols 16—Wheal St. Andrew 8—Penberthy Crofts 4—Trebarvah 2—Wheal Annie 2.—Total, 3143 tons. NO SALE on Thursday week, May 16.

_		2			F	IRST SA	L	1	N	MAY										è
Years		Tons.		Prod.		Amor	int.			Stan	dar	d.		Orec	OTH	MT.		Cake	cop,	ä
1851	********	3334		736		£15.550	12	0		£103	10	0		£85	- 3	0		£84	- 0	
1852	********	3933		636		19.322	14	0		114	9	0		78	19			- 88	10	
1853	*********	3824	-	616		17.097	9	o		118	6	0		73	Ä	ä		117	0	
1884	*********	2287		BIZ	-	15.951	7	ä	**	146	4	0	•••	103	11	0		126	0	
1855	*********	2410		756		19.334	17	6		140	ā	0	•••	104	9	0		196	0	
1856	********	4791	-	7'0		31.990		0		135	ā	ň	**	95	14	0		126	0	
1857	*********	3117		636	"	22 550	0	ě		145	9	ò	**	105	3	0		125	0	
1858	*********	3519		694	11	21,128	9	0		130	12	0		89	11	0		107	10	
1859	********	3617		75%	ш	27,309	3	6		135	8	0		99	3	6		112	10	
1860	*********	3217	0	757	3	91,820	11	0		131	12	0		93	13	0		110	0	
T	e conner fo	the n				a the net		-le		wer from	-	-		e nai	d to	0 1	he	min		

THE GLAMORGANSHIRE LEAD AND BARYTES MINING

THE GLAMORGANSHIRE LEAD AND BARYTES MINING COMPANY (LIMITED).

Capital £7500, in 1800 shares of £5 each.

10s. per share to be paid on application, and 10s. on allotment.

This mine is situate at Liangan, in Glamorganshire, and has produced from surface workings nearly £450 worth of lead ago, containing 80 per cent. of pure lead; and beautiful white barytes.

The geological situation is excellent, being in the mountain limestone, like the Minera Allendale, and the Northumberland and Mendip Hill Mines.

The above capital is abundantly ample for bringing the mine into a position of first-class importance.

Ennor, Esq., and Capt. Joseph Hodge have reported on the sett in the mo

perable terms.

pplications for the remaining shares, and for prospectuses, plans, and reports, ma
made to the solicitor and secretary, J. ARTHUR MORGAN, ESG., F.G.S., 17 and 18
sham House, London; or to the brokers, Messrs. CASTELLO BROTHERS, 18, Throg
rion-street, London, and Stock Exchange.

THE BRYNFELIN COPPER MINING COMPANY (LIMITED).

Capital £6000, in 1200 shares of £5 each. Incorporated under the Joint-Stock Companies Act, with limited liability. Deposit, £1 per share.

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Mr. EDGAR WILLIAMS YARROW, 27, Arandel-square, London.

WILLIAM HAWES, Piccadilly, Manchester.
HORATIO NELSON, 10, New Cavendish-stret, Portland-place, Long EDGAR WILLIAMS YARROW, 27, Arundel-square, London.

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PROSPECTUS.

This company has been formed to purchase the lease of, and to continue upon a moxtensive scale the workings of the Brynfelin Copper Mine, situate in the parish of Bedest North Wales

Extensive scale the workings of the Brynfelin Copper Mine, situate in the parish of Beddgelert, North Wales.

The operations have been previously carried on by a few private gentilemen, who being willing, in order to extend the operations, to admit a limited number of co-adventurers with a capital of £3000—a sum considered ample to place the mine in a dividend position—have consented to transfer the whole of their interest to the present company, for the sum of £3000, and to accept 600 shares of £5 cach, paid up, in liquidation thereof.

The principal workings have been confined to three veins lying a few feet apart, from which 515 tons of copper ore have been raised, averaging a produce of 8½ per cent., and realised the sum of £3763 14s. 10d.

The ground in which the lodes are embedded is highly mineralised, and of the most promising description for the production of rich copper ore; the main tode having yielded 7 tons, worth 504, per fm.; the ore is richer in quality, and of more value going down than in the upper workings, where about 240 fms. of ground have been wrought, each fathom having yielded £12 worth of copper ore, at an average cost of £4.

By reference to the plan of the workings, it will be seen that the courses of ore opened in the upper levels concentrate in the addit level, where a junction of the lodes takes place, justifying the expectation that upon this point being reached (about 25 fms. from the present end), large and continuous courses of ore will be found.

The property is most advantageously situated, being on the north bank of the River Glaslyn, affording ample proof as to the value and importance of the property, the prospects of which present unusual chances of great success, and a large return for the capital invested.

The heavent of the mine paying dividends before the full amount of capital is called

Reports from companies and the certainty of realising promone as mine, and the certainty of realising promone ag, may be seen at the office of the company, affording ampre promone and angre return for the capital invested.

In the event of the mine paying dividends before the full amount of capital is called up, such dividend to be in proportion to the amount paid; but any shareholder may, within three months of subscribing for shares, pay in advance the full amount, and be allowed a discount of £6 per cent.

Application for the remaining 6000 shares to be made on or before the 10th May, accompanied with the deposit of £1 each, addressed to the Secretary, at the registered of fices of the company, where every information may be obtained.

THE GLAN-Y-PWLL SLATE AND SLAB

COMPANY (LIMITED).

Capital £30,000, in 6000 shares of £5 cach.

Incorporated pursuant to the Joint-Stock Companies Act, 1856-57.

DIRECTORS.

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Lieut-Col. GEORGE O'BRYEN OTTLEY, Albion Tower, South Norwood.

MORRIS ROBERTS, Esq. (firm of Roberts and Griffiths), Glanmorfa Slate Works, Carnarvon.

BINKERS—The London and County Bank.

Solicitors—Messrs. Meyrick and Gedge, 4, Story's-gate, Great George-st., Westminster.

BROKELS—Messrs. Huggins and Rowsell, 1, Threadneedle-street, London.

Messrs. J. J. Stephens and Son, Dublin.

Messrs. Broide and Byrn, Liver Chambers, Liverpool.

Mr. Robert M'Ewen, Ducle-buildings, Bank-street, Exchange, Manchester.

Manage—Thomas Cooper Smith.

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OFFICES,-5, WARNFORD COURT, THROGMORTON STREET, CITY

oject of this company is to work the Gian-y-Pwil Slate Quarries, situated in the f Festiniog, in the county of Merioneth, North Wales, and on the same mountain those magnificent quarries owned by Lord Palmerston, Messrs. Huddart and s, and Mr. Holland. This sett adjoins their boundary, is a direct continuation seam, and consequently produces slate rock of precisely the same character and

quality.

From the position of this sett it is, perhaps, unequalled in Wales in natural facilities. The workings are about 258 yards from the level, and the slate rock crops out from the top of the mountain. From the works an incline, at a comparatively small cost, may be laid down for the conveyance of slates in railway trucks direct to the main line, running within 100 yards of the mountain, to the quay at Port Madoc. The carriage is about 3s. 6d. per ton. Another very important advantage is the space afforded for the deposit of waste or debris sufficient for an unlimited poried. The water-power is at all seasons ample for any work that may be required.

posit of waste or debris sufficient for an unlimited poriod. The water-power is a some ample for any work that may be required. A considerable portion of the capital has been already subscribed. Plans of the quarry, together with reports and samples of the slates, may be see a office of the company.

Applications for the remaining shares to be made to the bankers, solicitors, brokers and the manager, at the office of the company, where prospectuses and forms of application may be obtained.

SOCIETE GENERALE FRANCO-SERBE (EN COMMANDITE) For the navigation of the Danube and Save by iron steam-boats, and for the work ng of the valuable and extensive coal field of Dobra, and of the iron, lead, and copper nines, stream works, from and copper works, and of the forests of Maidampeck, under the authority of grants made to the company by the Servian Government.

tal, 2,500,000 frs. (£100,000). Loan capital, 1,000,000 frs. (£40,000).

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M. JULES PATON, 17, Boulevard des Italiens.
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Soliciton—John B. Sorrell, Esq., 19, Mark-lane.

ISSUE of 5000 BONDS of 200 frs. each, payable to bearer, with a premium of 50 put. in shares fully paid payable to bearer.
The Franco-Serbe Company are about to raise a loan of 1,000,000 francs, of which France-Serbe Company are about to raise a loan of 1,000,000 francs, of which fra. are proposed to be raised in England, to be secured by bonds of the company

500,000 frs. are proposed to be march in angular payable to be earer.

The bonds will carry interest at 6 per cent. to be payable half-yearly in Paris and in London. The principal to be paid off either in London or Paris within 15 years. All the bonds will be numbered, and a certain portion of them paid off every year. The bonds to be paid off will be determined by lot. The first drawing will be on the lat of December, 1862.

Each holder of five bonds will receive as a bonus one fully paid-up share of 500 frs., in respect of which he will incur no responsibility whatever, either for calls or liabilities of the company.

ie company, suit of the bonds will befully secured by charges on the property of the company, nareholders will receive their dividends at the company's bankers in London or

raris, in nair-yearly payments.

For a prospectic showing in detail the property and prospects of the company, and the security offered to the bondholders, apply to Messrs. Hutchinson and Son, to whom all applications for bonds are to be addressed.

One-half of the amount of each bond to be paid to the company's bankers in London at the time of subscribing, and the remainder on the 1st of June next, in exchange for the bonds and shares. the bonds and shares.

N.B.—No application for bonds can be received after the 4th of May.

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GOVERNMENT INSPECTION OF COAL MINES ACT FOR THE REGULATION AND INSPECTION OF MINES, ration on January 1, 1861.

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EW WORK ON GASES, THE POWER OF EXPLOSIONS,
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Much inconvenience having arisen, in consequence of several of the Numbers during
the past year being out of print, we recommend that the Journal should be regularly
sted on receipt: it then forms an accumulating useful work of reference;

MPROVED BLASTING CARTRIDGES.—I noticed in last week's Journal a reference improved form of cartridge case, invented by Capt. Webb, of St. Austell, which tainly appears to be all that can be required for ensuring safety; but as cost is a which is always well considered before any new project is adopted, I think it we have the cost of the new case to the old. I do not altogether agree with him that there is as much necessity fit spection in Cornish mines as in coal mines, although perhaps Capt. Webb may be to demonstrate it satisfactorily.—An ADVENTURER.

to demonstrate it satisfactorily.—An Adventurer.

sheburton United.—"A Shareholder" should write to the directors respecting the reports; we do not know why their publication has been discontinued. Mr. N. Ennor will also, on application, furnish information respecting Pengenna Mine.

Reat Wheal Alfred.—Allow me to draw attention to a statement in last week's Journal respecting this mine. In the City Article it is stated that the costs since last meeting have been 51361. 13s. 3d., and that the cres sold amounted to 31761. 2s. 7d., thus showing a loss of 19601. 10s. 8d. on the three months. Your report, however, of the meeting does not agree with that abstract, neither does it with the statement of accounts, a copy of which now lies before me, and from which it appears that the cres sold realised 47121. 2s. 7d. I think in justice to this great property you should give the same prominence to the correction as you gave to the error.

ast Gunnis Lake.—" Fact" can himself ascertain from the firm referred to the particulars he requires; they are so highly respectable and well-informed, as to render an information they may furnish perfectly reliable. We never either interfered in the sai or purchase of shares, or recommend one office for enquiry in preference to another.

r Directass of states, or recommend one once for exquiry in proceeding to another. THE CARADON WHEAL HOOPER,—"Query" has been misinformed as "to a fair disery having been made in this mine." As to the price or value of shares, we upon coasions specially avoid offering any opinion thereon, and must refer our correspent to a mining broker; and as to the question "Why is there no committee of a agement?" that is a matter which can only be decided by the shareholders a eneral meeting of the company.

N'S UNITED (NewFOUNDAND).—In answer to our correspondent, "L. S.," state that the application to the Bankruptcy Court for a winding-up order deferred, to allow time for the settlement of the petitioner's claim.

DESCRIBERS IN AMERICA.—Our friends in America are informed that they can obtath whining Journal by ordering it from a bookseller in any of the principal towns the United States. Mr. Tribner, of Paternoster-row, is the London agent, and ser parcels by every mail to the principal booksellers and news agents there.

THE MINING JOURNAL

Bailway and Commercial Gazette.

LONDON, MAY 4, 1861.

The returns from the Board of Trade, with respect to the exports from the United Kingdom for the first quarter of this year, show a considerable deficiency as compared with the corresponding period of 1860, although a deficiency as compared with the corresponding period of 1860, althoug improvement, relatively, over the returns for the months of January February. The total declared value is set down at 27,669,249t. for February. The total declared value is set down at 27,669,249*l*. for the three months of 1861, ending March 31; while the amount in 1860 was 30,481,907*l*., so that there is a difference of 2,812,658*l*. against the first quarter of this year. For the month of March alone, as compared with March 1860, there is an advance of 557,360*l*., the excess of 10,950,830*l*. over 10,393,470*l*, so that there is good reason to believe the succeeding

turns will continue to improve.

With reference to matters identified with the mining interests, there is with reference to matters identified with the mining interests, there is necessarily a corresponding state of things—that is to say, the difference of this year over the last bears the same proportion to the general amount, as is usual. The aggregate for 1861 is 5,021,631 l., against 5,741,684 l. in 1860; consequently a less amount by 620,053 l., after allowing for increase in coals, machinery, brass, and lead, of the collective amount of 217,018 l. The details, as us

al, are in another column t of the precious metals and bullion which have passed be The account of the precious metals and outnor which have passed between this and other countries is again discouraging. The balance against us is 2,134,486*l*. for the three months. The total exports were 7,133,034*l*., us is 2,134,466. for the three months. The total exports were 7,133,034L, against 4,998,548L imports; the former consisting of 4,143,483L in gold, and 2,989,551L in silver; and the latter 3,023,136L in gold, and 1,975,412L in silver. From Franca, however, we received more than we sent, which is a change as respects the late returns under this head—we sent 916,380L

and imported thence 1,092,195*l.*; so that the balance is in our favour to the amount of 175,815*l.* To Egypt, for India and China, we forwarded 2,687,265*l.*, against a return of only 645*l.*; and to the United States we exported 3,080,318*l.*, and received only 5056*l.* From Australia, however, we imported 1,612,081*l.* without exporting either gold or silver; and from Mexico obtained 1,935,446*l.* on similar terms. To the Brazils we exported 41,533*l.*, and received nothing in return in the shape of bullion or specie.

No subject has received fuller attention during the last two or three years than the relations of the working classes to their employers. The relative rights, obligations, and duties of labour and capital have been amply propounded and expatiated on by supporters of the most opposite views, and scientifically discussed by social science congresses. Commissions and committees have issued elaborate reports, which magazines and newspapers have rendered familiar to every class of the public. Above all, the disastrous strike in the building trade last year, and the prospect (now happily passed away) of a similar calamity occurring this year, has made the subject one of the leading topics of daily discussion for some weeks past. All these discussions show that there exists among a large proportion of those interested in the question, either as employers or employed, a settled conviction that, in the present state of society, there is a necessary antagonism between capital and labour. The interests of each seem to be regarded as inevitably hostile, and their relative positions only to be settled

gonism between capital and labour. The interests of each seem to be regarded as inevitably hostile, and their relative positions only to be settled by a war of adverse combinations. It is impossible fairly to deny that a large proportion of the labour of the kingdom is carried on in this mutual state of tacit antagonism between the employers and employed, notwithstanding a great deal of verbal expression of the importance of mutual interests. Without seeking to discover which side is most to blame for such a state of things—admitting for the sake of argument that both sides are equally to blame—we think that no one acquainted with any of those branches of industry where such an adverse feeling constantly exists between masters and men, whose usual relations to each other may be best tween masters and men, whose usual relations to each other may be best described as an armed truce, ready on the smallest provocation to break into the open war of a strike or a "lock-out," can have failed to observe the The experience of the whole history of mankind would have prepared us for this result by the example of the effects of similar past instances of class antagonism; which, without any exception, have ever been productive of groungus exils.

of enormous evils.

The true principles of economical science have long since rendered familiar to thoughtful men the fallacy of the notions upon which all such feelings are founded. The industrial antagonism of classes, as of nations, has no existence except in the perverted imagination; and the diffusion of sound economical knowledge will ultimately as effectually dissipate the delusion that the respective conditions of either master or workman are to be benefited by artificial combinations, as the sister idea of the industrial interests of nations being served by a war of tariffs. As this latter fallacy seems likely to show the last evidences of a vigorous existence in the land of democracy and universal suffrage, so it is to be feared that the allied notion of the innate antagonism between capital and labour will be found among the working classes.

among the working classes.

There is one branch of industry, however, which has ever been happily free from all the evils arising from the feelings we have referred to, and that is the Metallic Mining Interests. Among the large mining population of Cornwall—a population renowned throughout the world for its industry and intelligence—there are neither combination nor strikes. This great branch of national industry and he and even here here evaluated. dustry and intelligence—there are neither combination nor strikes. This great branch of national industry can be, and ever has been, conducted without recourse to such means, and that, too, with a result eminently beneficial to the labouring classes themselves, for we believe no other interest in the kingdom can show such a great proportion of working men advanced into the ranks of the middle classes. It would take us beyond our present limits to enter upon a discussion of the causes to which this happy state of things is to be attributed. Our object here is different: it is to refer to a tendency which we have on many occasions observed in more than one quarter, to endeavour to disturb this harmony by persuading the working miner that he is suffering under wrongs and injuries of which he himself seems to be quite unconscions, and to create a class antagonism between employer and employed in one of those branches of industry which is as yet happily free from such a great evil. Some of these would-be tween employer and employed in one of those branches of industry which is as yet happily free from such a great evil. Some of these would-be fomenters of discord are mere notoriety seekers, who might be safely left to find their own level; but others are well-meaning, respectable, and amiable men—some even professed philanthropists—undoubtedly actuated by good intentions and disinterested motives. With those every effort should be made to point out to them the folly and danger of the course they are pursuing, and the utter worthlessness of the few alleged facts—notoriously imaginative—on which they would seek to disturb and endanger an important but eminently precarious interest, and trouble the harmonious relations between employer and employed, introducing a state of things the evils of which they so fully recognise and deplore in other branches of industry. hes of industry.

LOSS OF LIFE IN MINES.

Few, even in Cornwall itself, but those who have made the subject a pecial study are aware of the degree to which miners' lives are shortened. It is true that many excellent papers proving this have been published, especially those in the "Journal of the Royal Polytechnic Society," but they do not appear to have arrested the attention of the general or even of the mining public, and something more is needed to produce the strength of mining public, and something more is needed to produce the strength of conviction necessary to effect the changes that will remove the evil. That the evil really exists is not to be doubted: 25 years ago the Royal Polytechnic Society of Cornwall offered a premium for the best essay on the diseases peculiar to miners, which was in 1838 awarded to Mr. R. Lanyon, surgeon, of Camborne. That essay proved that miners were unusually short-lived, that they suffered from a great excess of disease, and became prematurely old—that the causes of these tremendous evils were to a great extent removable; while other enquirers have proved their removal. prematurely old—that the causes of these tremendous evils were to a great extent removable; while other enquirers have proved their removal, or rather their great diminution, might be effected with large and direct profit; and yet after an interval of a quarter of a century, notwithstanding some partial improvements, the condition of miners as a class is still essent tially the same their lives are still shortened, their health destroyed, and he power to labour lessened.

It is broadly asserted that the continuance of these evils in their present

It is broadly asserted that the continuance of these evils in their present degree is due either to the ignorance or indifference of mine adventurers to the welfare of the men they employ, though it is so evidently both their interest and their duty to preserve the health and economise the strength of those upon whose successful efforts their own profits depend.

Whether his view of the case be correct or not, it is most important that the truth should be ascertained. If the loss of life can be prevented, all presented must recise in learning how that happy end is to be attained.

concerned must rejoice in learning how that happy end is to be attained. If the evil be without remedy, it would be only just that those who are now blamed, and apparently with reason, for permitting it to continue unabated, should be acquitted of neglect which seems little short of criminal. Without for a moment insinuating that feelings of humanity alone would be inshould be acquired to a moment insinuating that feelings of humanity alone would be insufficient to stir those who control mining operations to endeavours to preserve life, it is well that they should reflect how very closely their own profits depend upon their men's welfare. If it be true, as statistics clearly prove, that a very large proportion of miners die of consumption, it follows, of course, that a very large proportion of those actually at work must be suffering from that disease in a more or less advanced stage, for consumption makes progress towards its fatal termination gradually, and often very fering from that disease in a more or less advanced stage, for consumption makes progress towards its fatal termination gradually, and often very slowly. It needs no argument to convince us that men whose lungs are being gradually destroyed must be incapable of exerting themselves with full strength and activity, and that, therefore, the extensive prevalence of a fatal disease among a class of labourers must very materially enhance the cost of their effective labour. Nay, it is highly probable, if not quite certain, that the cost to the employers of such labour is greater than in proportion to its diminished efficiency, for the men must be induced to encounter the risk, almost the certainty, of destroyed health, by higher waces portion to its diminished efficiency, for the men must be induced to encounter the risk, almost the certainty, of destroyed health, by higher wages or equivalent advantages. If these considerations be true, and they can hardly be doubted, it follows that there would be a large profit in removing the causes of disease, and it is highly probable that that profit will be greatly in excess of the cost incurred, and that instead of being, as it is at present, an impediment to the development of mining enterprise, diminution of danger in mining will greatly facilitate the profitable working of mines. All this may seem very cold-hearted calculation, but it is not so. Improvements which cost much more than they are worth, not in themselves, but directly to those who pay for them, are of little practical value, for their introduction is next to impossible. For example, if those needed to make mining healthy are so costly as to render it unprofitable, it is evident that

they would be resisted alike by masters and men; and, unless they can be proved to pay, they are little likely to be tried. In order to arrive at some reasonable conclusion on this all-important point, it is necessary to enquire what is the nature and extent of the evil, and by what means, and at what cost, can it be removed or diminished? The nature of the evil is best shown by the result of enquiries into the chief causes of death among Cornish miners. About two years ago a very interesting paper on this subject was published by Mr. Roberton, an eminent surgeon, of Manchester; and Dr. Farr, chief statictian of the General Register Office, presented some very valuable tables on the vital statistics of miners to the Congress of Staticians of All Nations, which met last year, under the presidency of the Prince Consort. Dr. Farr has since pursued these very useful investigations, the most striking result obtained being that, great as is the loss of life from the numerous accidents in coal pits, that from consumption among copper and tin miners is far heavier. Thus it is proved by the registration of deaths that even in the Staffordshire collieries, in which the deaths by violence are more numerous in proportion than elsewhere, 28 per cent. of colliers who attain the age of 15 die by violence; but of Cornish miners of the same age above 44 per cent. die of consumption; and that almost three times as many Cornish miners die of consumption as do males in England generally. Of course, miners are more exposed to injury by accident than the average of Englishmen, and about 50 per cent. more than the average die by violent causes; but in other respects, except these two, they seem less liable than the average of men of like ages to the causes which produce premature death, and therefore the great produce premature death, and th of Englishmen, and about 50 per cent. more than the average die by vio-lent causes; but in other respects, except these two, they seem less liable than the average of men of like ages to the causes which produce prema-ture death, and, therefore, the enquiry chiefly needed is to ascertain what are the causes of the excess of that consumption by which they are de-

That the chief cause of the excess of consumption among miners is something which acts peculiarly on them is shown by two circumstances—first, it destroys those miners chiefly who are above 40 years of age, though generally middle-aged men are less liable to it than those under 30, while somewhat less than the usual proportion of young miners die of it; this proves that it is not produced by the same causes as common consumption. The other fact is, that other men residing in the mining districts of Cornwall, who do not work in mines, are not more liable to premature death than men living in other parts of England. It has been supposed as miners often live on bleak moors, and are, therefore, much exposed to the inclemency of the weather, and have sometimes very defective house accommodation, that these circumstances will explain their unhealthiness. To some extent this may do so, but that this is not the chief reason is shown by the fact that the women in the mining districts, who do not go underground, do not suffer unusually from consumption; but they must be exposed to the same effects of defective house accommodation to, at least, as great a degree as their husbands, fathers, or brothers. They must also have similar hereditary constitutions; many of them work as long as the men among copper ore, breathing anything that may arise from it, and are quite as much exposed as the men to the weather while going to and from their work, but they do not go underground as the men do, and do not, like the men, suffer from any remarkable excess of consumption. These facts seem to prove that whatever be cause of miners' consumption, it is something which acts upon them chiefly, if not exclusively, in the mine itself. That it is not simply working at a great depth underground is proved by the fact that the colliers of Durham and Staffordshire suffer much less from consumption than the average of men of like ages, and coal mines are as deep as copper mines, and often as wet, and more dusty. stroyed so rapidly.

That the chief cause of the excess of consumption among miners is proved by the fact that the colliers of Durham and Staffordshire suffer much less from consumption than the average of men of like ages, and coal mines are as deep as copper mines, and often as wet, and more dusty. They differ in being better ventilated—having more fresh air they are cooler. Coal is not so hard as rock, and the labour of getting it is less exhausting than that of "beating the borer," in which so much of a miner's work consists. There is less powder smoke, and no exhausting labour in climbing a long succession of ladders. To each of these, different enquirers have attributed to less of the excess of consumption among Cornish miners.

I last importance that the real cause should be ascertained, the many be rightly directed for its removal. This can only be a careful and rigidly impartial enquiry amongst those who have the best means of information, and nothing will or ought to satisfy us that the enquiry is careful and impartial unless it be conducted by those accustomed to similar investigations, and who have no interest or prejudice to gratify by the result.

COAL IN THE SILURIAN OF SOUTH WALES-No. II.

Our great coal fields are in the carboniferous formation, and upon this scientific fact alone we should be justified in concluding that there is no coal in the Silurian rocks of South Wales. But in itself that would not be satisfactory proof, inasmuch as anthracite and bituminous shale are sometimes found in Silurian, and even the older metamorphic or transition

sometimes found in Silurian, and even the older metamorphic or transition rocks. It is, therefore, requisite for us, without entering upon any abstruse scientific question, to notice the general conditions under which coal is found. The vegetable origin of coal is now established beyond reasonable doubt, and as an abundant flora existed in every era, from the carboniferous to the tertiary, we are prepared to discover in any of them coal of a certain description. And, in accordance with this theory, lignite, or carbonised wood, extensively used as fuel in many places, is obtained in the triassic, cretaceous, and tertiary systems; but in the formations anterior to the carboniferous there was no flora from which coal could be formed. The fossils of the Devonian and Silurian strata have led to the conclusion that they boniferous there was no flora from which coal could be formed. The fossils of the Devonian and Silurian strata have led to the conclusion that they were for the most part formed in deep seas far from land; and plants are as unknown, or at least as rare, in them as they are abundant and universal in the coal measures. The older strata, says Humboldt, contain merely cellular and marine plants, and it is only in the Devonian system that a few cryptogamic forms of vascular plants have been observed. Now, although there was no flora, speaking generally, in the Silurian period, we have in these ancient rocks bitumen, anthracite, and highly carbonised shale. In describing the Longmynd, Sir Roderick Murchison remarks, where the strata are altered by the intrusion of eruptive rocks they contain copper, and describing the Longmynd, Sir Roderick Murchison remarks, where the strata are altered by the intrusion of eruptive rocks they contain copper, and some of the cavities are lined with crystals of quartz, and occasionally with bitumen or mineral pitch; and in geological works we frequently read of films of anthracite embedded in the Silurian, but of no economical value. Then, if there were no flora in these ages, whence anthracite and bitumen? M. Abich, in noticing the earlier rocks of this period, says pretoleum (like that issuing from the rocks of Pitchford and Haughmond Hill) is a compound primitive body, engendered in the integrior of the globe, whence it arises like carbonic acid, of which the real origin is unknown. Probably this conjecture is good so far as it goes, but it does not refer to the anthracite or to the carbonised shale. Sir Roderick Murchison meets this difficulty with a very plausible explanation, which is sustained by recent investigation. In referring to the laminæ of anthracite, at Teviotdale, near Edinburgh, which formerly gave rise to the notion that coal was suborditigation. In referring to the laminæ of anthracite, at Teviotdale, near Edinburgh, which formerly gave rise to the notion that coal was subordinate to the schists of North Wales, he says, "It has been surmised that this anthracite resulted from the carbonisation of sea-weed, or possibly of graptolites and annelides, but the discovery by Nicol of some imperfect reedlike plants in the rocks, with a minute vascular or tubular structure in the burnt residue of the anthracite, has led to the suggestion that some sort of grassy vegetable existed in the adjoining lands of this series." Helmersen, too, is of opinion that "most of the bitumen and anthracite beds of the lower Silurian rocks in Europe owe their carbon and hydrogen to decomposed marine vegetables, and the soft bodies of graptolites." And Mantell, in reference to the subject generally, observes, "Although beds and patches of culm, anthracite, and bituminous shale occur here and there in the lower Palacozoie rocks, yet plant remains are extremely rare; indeed, it is not of culm, anthracite, and bituminous shale occur here and there in the lower Paleozoic rocks, yet plant remains are extremely rare; indeed, it is not yet proved for certain that the old anthracite schists owe their origin to the osition of masses of sea-weed rather than to zoophites, and what en regarded as fossil fuci may, after all, really be the cast of worm This is certainly the case with the Scolithus Linearis of the Potsdam sandstone and Lingula flags. . . . It is in the upper Silurian (tilestones) only that as yet seed vessels and woody relies of terrestrial vegetation have been found in England, and these are of the Sycopodiaceous type. It would be tedious to refer at greater length to the views of eminent scientific men upon this subject; we have, however, said sufficient to prove that according to the accepted principles of geology we cannot expect to find coal in the Silurian of South Wales.

expect to find coal in the Silurian of South Wales.

But a difficulty occurs here which we must honestly state, our object being to elicit the truth, so far as it is known. A few years ago Mr. D. Sharpe, a distinguished geologist, in a memoir read before the Geological Society, announced the discovery of a coal field in the Silurian of Portugal. He represented the coal-bearing strata of Vallongo, which contain plants not distinguishable from those of the carboniferous era, as dipping under lower Silurian schists, with their characteristic trilobites.

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"Now," to use the words in Siluria, "if this had been really the normal position of the plant-bearing stata, we should have to believe in the existence of an ante-Silurian

accuracy of Mr. Sharpe's sections, I think, however, from his own faithful description of this district, and the region to the south of it, that we may surmise how this apparent anomaly has been brought ahout. The lower Silurian rocks, and the contiguous soal strata (for the coal is not found within the body of the lower slates), are both situated between two ranges of cruptive rocks; the one on which Oporto stands being granite, and the other, to the east, spenite. On the finants of the granite of Oporto micanosus schists abound; which, if metamorphic, may be of any age. But, even if these be of ante-Silurian date, we have simply to imagine a trough of coal, of the true carboniferous date, placed between these schists on the one hand, and the clay-states, with lower Silurian fossils, in the other, and then by a movement, of which we have many well-authenticated examples both in Europe and America, this trough has been placed in an inverted and disiocated position. The enormous length of time which must have elapsed between the accumulation of the lower Silurian and the formation of the Devonian rocks, and during which interval we have no evidence of land plants having appeared, fordids us, indeed, to adopt the view of an infra-Silurian coal field, until we have exhausted every other means of information."

Even if this increases

Even if this ingenious explanation of Sir Roderick should not be found correct, we must wait patiently for the result of further enquiries before venturing to act upon a new theory, subversive of all our present goological knowledge. We believe the result will eventually confirm the ex venturing to act upon a new theory, subversive of all our present geological knowledge. We believe the result will eventually confirm the existing theory, which is universally accepted, and based upon a large mass of continually augmenting evidence. Not many years since the mineral structure of the schists of the Sichon, in Central France, their purple plum-coloured exterior, and their fracture, combined with the aspect of the sandstones, grits, and conglomorates, give them a character from which few geologists would hesitate to assign them to the grauwacke or most ancient Silurian or Cambrian deposits; but Sir Roderick Murchison, in 1851, obtained fossils which prove that these rocks belong to the carboniferous series, and thus one of the facts which was held to favour a Silurian coalfield was destroyed. It would be an easy matter to prolong this article sched, and thus one of the facts when was next to layour a Shurian coal-field was destroyed. It would be an easy matter to prolong this article with other striking illustrations; but surely they cannot be required, nor indeed would it be compatible with our purpose to go further into this scientific question. What we have advanced will, however, help to esta-blish our assertion that there is no coal of companied while it has silvering estion. What we have advanced will, however, help to esta-sertion that there is no coal of economical value in the Silurian

CORNISH NOTES-FOR "OUT-ADVENTURERS."

BY J. Y. WATSON, P.G.S.

What is an "out-adventurer?" This question will probably be asked by many persons who read the heading to this paper; and it may be answered thus. In former times, when investing in mines was chiefly confined to residents in the mining districts, those shareholders who benefited as merchants in supplying the mines with their merchandise, and that often to a very considerable extent, were called "in-adventurers;" while those who resided beyond the favoured circle, holding shares and turnish and the series who resided beyond the invoired circle, holding shares and farmisaing their supplies in the shape of calls, were termed "out-adventurers."

At the present time the words may be applied, as I now apply them,
simply to those shareholders in mines who live out of the mining districts,
and, consequently, out of the way at times of very useful and necessary
information. Many of them, I fear, have also been for a long while out
of patience and of hope in their speculations; and a few "facts and figures,"
obtained from personal investigation on the spot, may neither be unaccentable nor out of place.

coptable nor out of place.

It has always been a difficult matter to persuade some people that mines making the greatest returns, and paying the largest dividends, are not necessarily the best and safest to invest in. In the olden times I have

making the greatest returns, and paying the largest dividends, are not necessarily the best and safest to invest in. In the olden times I have spoken of the fair and proper way of working a mine was considered to be that of taking away half the quantity of ores discovered, leaving the other half as a reserve, in case of any temporary falling off in the lodes; but in these go-ahead times shareholders—especially those who buy for the market—look for the largest returns that can be made, and hence it is we see so many mines pay dividends too soon, and after a time return to calls. A dividend mine wherein shares are required for investment is safer to buy so as to pay only 10 per cent., with a prospect of increasing to 20 per cent., than one which is paying 20 per cent. by being worked too hard, and with probabilities, therefore, of falling off in a year or two.

In progressive mines there are always points to be noted and watched, and it is by knowing when certain points are expected to come off that speculators hit the right time in buying.

EAST CARADON, MARKE VALLEY, and WEST ROSE DOWN—Monday, April 29. I spent the greater part of this day going over these mines, accompanied by Capt. Seccombe and the Chairman of the three companies. EAST CARADON is in Linkinhorne, and held on lease for 21 years (about 13 years to run), at 1-18th royalty. The late company drove a species of erratic adit for a considerable distance without meeting with the caunter lode, sunk the north shaft 12 fms., and then abandoned the mine. When the Salisbury Company took the sett, Capt. Seccombe took up the old adit, but commenced driving the contrary way (south), and in about 40 fathoms cut the caunter lode of South Caradon. An engine-shaft was then commenced from surface, and at 50 fms. under adit, or 70 fms. from surface, the rich course of ore was met with. The lode in this level has been opened upon for 100 fms., through a continuous course of ore, worth on the average 50% per fm.; the western end now being near the boundary, the rich course of ore was met with. The lode in this level has been opened upon for 100 fms., through a continuous course of ore, worth on the average 50k per fm.; the western end now being near the boundary, and the eastern end worth 12k per fm. This is supposed to be the longest and richest course of ore in Cornwall without a break in the lode. About a month ago the lode was cut in the 60, and here it has been opened upon about 6 fms. east and west, worth on an average 60k per fm., and supposing this ore should continue rich for the length that it did in the 50, it is calculated there will be at least 50,000k of ore to take away at a trifling cost. Above the 50 the backs are worth about 10,000k. It will take about twelve months to cut this course of ore in the 70, during which time antwelve months to cut this course of ore in the 70, during which time another engine will be erected. The next dividend will be 10s, per share for the four months, and we hear it is fully expected it may be given every two months. In the sett there are about twelve other lodes, of which two two months. In the sett there are about twelve other lodes, of which two (Fawcett's and Simmons's) have been seen in the 50; the former yielded good ore, but little has been done upon it at present. The latter lode has been opened upon for 3 or 4 fathoms only, and yielded \(\frac{1}{2}\) ton of copper ore per fathom. The cross-cut is still being extended north to intersect other lodes. It will be seen from these remarks that not only is the mine at present very rich, but it has great prospective advantages, and is likely to become the richest mine in the county.

secome the richest mine in the county.

MARKE VALLEY, also in Linkinhorne, on the north side of the Care MARKE VALLEY, also in Linkingorie, on the north side of the Caradon Hill, is a very large sett, at present paying moderate dividends, but with good prospects of increasing them, as while the returns are about 300 tons of ore per month, the reserves are being greatly increased. The operations are being carried on upon Marke's lode, Rose Down lode, and a new lode lately intersected in a cross-cut from the Rose Down lode, at the 80, from Salisbury shaft. Upon this new lode 16 fathoms have been driven, varylately intersected in a cross-cut from the Rose Down lode, at the 80, from Salisbury shaft. Upon this new lode 16 fathoms have been driven, varying from \(\frac{1}{2} \) ton to 3 tons of copper ore per fathom. On the old lode in the eastern workings about 62,000\(\frac{1}{2} \) worth of ores was raised from the 65, and the lode will soon be cut at the 100, under where this large body of ore was met with. This is an important point, and would have been reached some time ago but for a breakage in the machinery. The mine may be said to be a good and safe investment for increasing dividends.

Where Rose Down ... This is about one of the larvest eaths in Cornwall.

said to be a good and safe investment for increasing dividends.

West Rose Down.—This is about one of the largest setts in Cornwall, and takes the ground between Marke Valley and East Caradon, and also the Old Caradon and Wheal Jenkin Mines on the north side of the hill. An adit was commenced to intersect the Rose Down and Marke's lodes of Marke Valley, and after being extended about 40 fms., another lode was found, 4 feet wide, of as promising a character as any cut in the district; this is now being driven upon west, and the adit continued south to intersect the other lodes. There is no machinery at present, but the sett is not calle of great extent. Int of great prospective value. The lode cut, from only of great extent, but of great prospective value. The lode cut, from its fine gossan, is supposed to be the new lode of Marke Valley, and on likely to make ore at a shallow depth. A shaft will soon be commence

cks. This is certainly the case with the Scolithus Linearis of the Potsn sandstone and Lingula flags. . . . It is in the upper Silurian
restones) only that as yet seed vessels and woody relies of terrestrial
retation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England, and these are of the Sycopodiaretation have been found in England and these are of the Sycopodiaretation have been found in England and these are of the Sycopodiaretation have been found in England and experience,
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cause some excitement, if only from the nature of the district, and this may

cause some excitement, if only from the nature of the district, and this may be met with some day.

Immediately to the east of East Caradon, and on the run of the rich caunter lode (by the way, this so-called caunter runs nearly due east and west), is a mine called Glasgow Consols, worked, as I understand, by a Glasgow company. It was formerly a part of Tokenbury, and is by far the prettiest sett, and one with the best prospects of any young mine in the district. It seems extraordinary that the well-known acuteness of the Liskeard people should have allowed the Scotchmen to get hold of such a sett. I must say I stopped at every point of the hill to gaze upon it, and regretted I had not time to go and ask the agent a little more about it. The Old Tokenbury was worked to a great depth some distance to the northeast, and was in killas, but the Glasgow company working the ground close to East Caradon are in granite.

cast, and was in killas, but the Glasgow company working the ground close to East Caradon are in granite.

St. Austrell, April 30.—We stopped here on our way to the West, to look at two mines which are now causing some talk in Cornwall, and one of which I had not before heard of under its new name, and, as I did not receive Saturday's Journal, was not aware that a notice and plan of it had been published—I refer to West Polmear. We went first to Wheal Polmear, which is a large sett lying between Charlestown and St. Austell, and holds out the promise of becoming a valuable dividend mine. There are 256 shares, upon which about 14l. have been paid up, and the price now 220l. The workings are being carried on upon five lodes, none of which have yet been seen below the adit, which is 32 fms. deep. Above whis adit ore to the value of 16,000l, has been sold, and at present the mine will pay cost, so that no more calls are likely to be made. The works are being well laid out, and some of the lodes yielding some of the finest rocks of ore I ever saw. Of course, everything depends upon cutting the lodes below the adit, but there is little fear of their proving rich, and I shall fully expect to see the mine pay good dividends in 1862. It is under the management of the well-known Captain John Dally, and he and Captain Barrett, of Charlestown, are the largest shareholders in the mine.

management of the well-known Captain John Dally, and he and Captain Barrett, of Charlestown, are the largest shareholders in the mine.

West Polmear was formerly worked for tin close to the town of St. Austell, under the name of Carvath; it has been put to work in another part of the sett by Mr. West, the well-known engineer, and Capt. Clymo, of South Caradon, the machinery upon it being valued at 2000l. The present operations are a long way from the old works at Carvath, and have been commenced, of course, owing to the richness of Polmear, the five lodes of which run through West Polmear, making it a good speculation. The shaft is 100 fms. from the boundary of Polmear, and down 20 fms. below the adit of 15 fms., and a cross-cut driving towards the Polmear lodes, the first of which will be cut in about three or four months, in a fine channel of ground for mineral. I had the advantage of going over both mines, and seeing every part of them, with Captain Seccombe, of East Caradon, who had been offered shares in West Polmear, and went to see the mine before deciding upon taking them. His opinion of the mine is favourable, and he considers it a fair speculation; and as he took the shares offered him, I think considers it a fair speculation; and as he took the shares offered him, I think that fact speaks a great deal in its favour. As I have to scribble these notes whenever I can get five minutes to spare, you must take them in the rough, to be polished up hereafter perhaps; and I hope next week, before returning to the Caradon district, to give you some particulars of the Camborne and other wines.

THE IRON TRADE, AND ITS PROSPECTS.

The present position of the iron trade presents a favourable opportunity or considering the best course to be pursued to secure the largest amount of prosperity for the future; not only must the ironmasters be careful to produce the best quality of iron which the ore at their disposal is capable of affording, but they must exert themselves to their utmost to open up new channels for the consumption of the greatly-increased quantity which the various new iron fields from time to time being opened out are capable of supplying. The Cleveland iron district is already producing large quantities of excellent iron ore, and there now appears to be a probability that Wiltshire will further add materially to the annual yield. It is acknowledged that in the Cleveland district, as in some parts of South Wales, the ore is raised from beds near the surface at a cost little exceeding 1s. 6d. per ton, and it is estimated that at Seend it will not exceed 1s. With such facilities for the production of ore it is apparent that the great point upon which rivalry in the several districts must turn is the process of manufacture. Every means must be adopted to produce the largest quantity of finished iron from the minimum of raw material, and likewise to utilise every product, chemical or otherwise, yielded in the course of the operation. Perhaps there is no field in which there is more room for the extension of the use of iron than in the construction of ships, and now that Government has made a move in the matter it behoves all connected with the iron trade to use their best efforts to procure the exclusive use of iron—a change which of prosperity for the future; not only must the ironmasters be careful to to use their best efforts to procure the exclusive use of iron—a change which would be no less beneficial to the country than to the ironmasters A committee, consisting of officers representing each branch of the service, committee, consisting or officers representing each branch of the service, eminent scientific men, and engineers, was recently appointed by the War Office to consider the best means of applying iron to defensive purposes in connection both with military operations and ships of war. This committee is now busily prosecuting important labours, and is desirous to receive assistance from iron manufacturers and scientific men in all parts of The points on which the committee are specially anxious to obtain in-

The points on which the committee are specially anxious to obtain information are—1, the qualities of iron mest capable of resisting projectiles at high velocities; and 2, the best mode of attaching armour plates to vessels of war. In reference to the latter point, the committee particularly desire to receive plans for incorporating with the structure of vessels plates capable of resisting shot, instead of merely affixing them to the surface, and thus only adding to the dead weight of the ship. With regard to the mannfacture of iron, there are several branches in which much more attention should be given to quality than is given at present. It has been already proved that a high-class trade may be remunerative to the ironmaster, and the use of good iron certainly is much more satisfactory to the manufacturer. May it not, then, be presumed that the thoroughly practical projects which have been brought forward for constructing cheap and efficient ships only require to be kept permanently before the public to ensure a permanent and considerable demand for iron for ship-building purposes alone? The requisite properties of good iron or steel are well known, and such rapid strides are now being made in the science of iron-making that we are bound to anticipate a near approach to perfection at no distant period.

ECONOMIC GENERATION OF STEAM—ROTATORY BOILER.

The vast improvements from time to time introduced in the generation of steam almost causes us to look upon novel and more efficient contrivance as the natural result of time, whilst the acknowledged fact that we are still far, very far, from perfection should be sufficient to guard us against exhibiting too great an amount of incredulity. On Thursday we witnessed the practical working of a rotatory boiler, invented by Dr. F. Grimaldi, of Naples, and readily affirm that the improved arrangement offers many and important advantages. The boiler in question is a 3-horse, and in shape is cylindrical, with curved ends, upon which trunnions are affixed, to enable the boiler to be rotated through the stuffing-boxes provided in the brickwork in which the boiler is set; the steam and water-supply pipes pass through the trunnions, so that almost the entire surface of the boiler an from time to time be exposed to the action of the heat. The extreme ength of the boiler is 19 in., and its diameter 18 in., ordinary boiler-plate being used in its construction. The furnace is so arranged as to form a square chamber, with a cylindrical one above it; and it is in this cylindrical chamber that the boiler rotates, the lower side of such boiler dipping well into the square chamber; the grate-surface is 16 in. by 12 in., and the diameter of the cylindrical chamber is about 2 ft, five inches being the death of water level in the belief, the water level is the low the

diameter of the cylindrical chamber is about 2 ft., five inches being the depth of water kept in the boiler; the water is supplied by jets, below the water-line, at each stroke of the feed-pump, and the steam before being used in the engine is passed through a second vessel fixed in the flue with which the top of the boiler-chamber communicates in order to superheat it; this superheater can, of course, be dispensed with if required.

Perhaps the greatest advantage possessed by Dr. Grimaldi's boiler is that as the fire acts upon every part of the boiler in succession, instead of upon a single point continuously, it promises increased durability, but it must also be stated that the mere rotation is likewise productive of considerable economy—thus with the boiler mentioned it was found to be equal to fully 12 per cent.: the steam-gauge showed 72 lbs. pressure when the strap was thrown off by which the rotation is effected, and in three minutes the pressure had fallen to 64 lbs.; the strap was then replaced, and within three minutes of replacing it the former pressure of 72 lbs. had been regained. During the whole time of the experiment neither the fire, fur-

mace, nor machinery were interfered with in any way whatever. Mr. Knowelden (engineer and machinist, Chapel-place, Long-lane), upon whose premises the boiler has been fixed, assures us that the consumption of coal was 122 lbs. in 6 hours, and that he has proved by actual and careful trial that 90 gals. of water were evaporated during that period, and he anticipates that with trifling modifications in the arrangements which have suggested themselves since the boiler has been in use—this being the first boiler made—the will be enabled to other westly reacht with a favorable. The gested themselves since the boiler has been in use—this being the first boiler made—he will be enabled to obtain results nearly twice as favourable. The great success attained may, it is said, be attributed to several circumstances: the entire shell of the boiler becomes heating surface to the water itself when the boiler is rotated, whilst in the case of its being permitted to remain stationary the heating surface for water is necessarily limited to the water level, the remaining portion of the surface being applicable only to the superheating of steam already generated. Where space is limited the invention would be invaluable, a Grimaldi boiler 19 in. long being equal to an ordinary boiler of 6 feet other dimensions being proportionate: and to an ordinary boiler of 6 feet, other dimensions being proportionate; and as to the fear expressed that a rotatory boiler would be objectionable, as in case of accident to the rotating gear the resources would be reduced to a dangerous extent—a boiler of one-eighth the ordinary size—we think, it a dangerous extent—a boiler of one-eighth the ordinary size—we think, it is groundless, the power required for rotation being very small, and the chance of accident being so little that practically it need not be taken into more careful account than any other portion of the machinery, whilst the time required to repair any such accident would be unimportant. Lastly, as to cost, it appears that the first outlay would be about the same as for an ordinary tabular boiler of the same power; but as the durability of the boiler is much greater, the result would be eminently in favour of Dr. Grimaldi's invention. -eighth the ordinary size-we think, it

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

MAY 2.—No change can be reported in the state of the Iron Trade. The position of affairs in America naturally checks improvement, but the trade is no worse, which is so far satisfactory. Of the Hardware Trades the same

is no worse, which is so far satisfactory. Of the Hardware Trades the same remarks may be made.

The results of the Census naturally create considerable interest in the district, as they demonstrate the direction of the population and the material progress of the community. In the township of Wolverhampton the increase within the last ten years is 20 per cent.; this increase is attributed mainly to the greater number of persons engaged in the hardware manufactures. In parishes where the mines are still extensively worked there is a considerable increase, as, for instance, in Wednesfield and Willenhall, which, lying on the edge of the coal field, have only recently had their mineral wealth developed. In Willenhall the population has increased from 11,931 to 17,254, or nearly at the rate of 45 per cent. In Wednesfield the increase in the ten years is actually 77 per cent. A singular contrast is presented in Bilston; in that town the increase within the last ten years is only at the rate of 34, per cent. This is readily explained by the fact that the mines at and near Bilston are nearly worked out, and that numerous failures have occurred there of proprietors of mines and from-work, thus greatly reducing the means of employment. In Sedgley parish, in which a good deal of mining is going on, as well as the manufacture of heavy hardwares, chains, nalls, &c., the increase is 24½ per cent. In Kingswinford Union the increase is at the rate of 20 per cent.; in King's Norton, 65 per cent.; in West Bromwich, 21 per cent.; in Dudley, which has suffered considerably from depression in the iron trade, 18 per cent. In Pelsali and Bloxwich, which are part of the plateau of Cannock Chase, where new mines are being developed to a large extent, the increase is very great; in Pelsali it is 66 per cent., and in Bloxwich 88 per cent. On the whole, the returns, so far as they have been yet made public, show that the increase in the population is steady, but considerably slower than when the Iron trade was rapidly growing.

Two men, n

REPORT FROM YORKSHIRE, DERBYSHIRE, AND LANCASHIRE

MAY 1.—The aspect of American affairs is particularly gloomy, and the latest accounts of the war indicate a state of things which, for some time to come, must have a depressing and disastrous effect upon trade. A general dulness pervades the Iron Trade, and there is an absence of animation in nearly all departments. For plates and rails there is a steady enquiry, but as regards other branches of the trade but little is doing. The demand for pig-iron is dul, and during the week several furnaces have been blown-out in Yorkshire, and others are likely to be put out, unless there be a better prospect of immediate improvement.

enquiry, but as regards other branches of the trade but little is doing. The demand for pig-iron is dull, and during the week several furnaces have been blown-out in Yorkshire, and others are likely to be put out, unless there be a better prospect of immediate improvement.

The Coal Trade is tolerably active for the season, but in many parts of Derbyshire and Lancashire a dulness prevalls, in the latter county on account of the stoppage of machinery occasioned by the strike. For export there is a good enquiry for hard coal for steaming our merchant vessels, and for home consumption a good demand exists for locomotive purposes, on account of its substitution for coke. The turn-out colliers at Woolley, near Barnsley, have found it an expensive process to apply to a Judge in Chambers for bail under a charge of riot and conspiracy, for which they are committed to take their trial at the next York Assizes. An order for bail was granted, each in a surety of 751.

On Wednesday the friends of the men in custacy offered buil, and the greater part of the day was occupied in examining the fitness of the sureties offered. Mr. Barrett, of Leeds, appeared for the proprietors of the colliery, and Mr. Freeman, of Huddersfield, represented the men in custacy. In five cases ball was accepted, and in the case of the other two it was rejected as not being satisfactory.

Several accidents have occurred since our last of a very serious nature. On Saturday the sinkers at the new colliery at Thryberg, near Rotherbann, were boring for the coal, and the head sinker, George Jagzer, had prepared the shot, which did not go off. He poured some water down the hole, and was in the act of drilling to the powder when an explosion took place, which nearly blew off both his arms, deprived him of sight, severely cut his face, and so hadly injured him that did do not he following morning. The other men were burnt, but not fatally.—On Tuesday an inquest was held at Barnsley on the body of a boy named Joseph Smith, who was employed as a hurrier in th

month we have had weather of almost unparalleled splendour, and we have been encouraged to expect an early spring; the money market has relaxed, and in this and surrounding neighbourhoods a partial return of activity has exhibited itself in the coal trade, and a revivification of the sister trade has been deemed probable enough to make people hopeful. Masters have, doubties, been locking at things in this light for months past. They have been "hoping against hope," and the struggle with some has been a fearfully dimentione; for instance, it is known that orders for rails have been executed at a loss of more than 1000, on every 1000 tons. Marketable rails can scarcely be delivered (f.o.), at Newport, Cardiff, or Swanses, for 61, and yet I know that for some time orders at 61, per ton have been readily taken up and executed—obviously only to prevent a ceasation of employment. Last week's shocking intelligence from America, and the continued duliness of the chief markets, have at length brought things to a crisis in this district, and a general reduction of wages at the principal works may be expected in a month." A similar notice has, I am told, been given this week or two at the Aberaman Works, and a partial reduction has already taken place in the Gadly's Works. The Dowlais, Ebob Vale, Rhymney, and Tredegar Companies are about taking, or have taken, similar steps, and there are reasons to fear that most of the coalowners will be obliged to "follow suit." The exact amount of the reduction is not yet known, but there is no doubt it will be at least 10 per cent. It is scarcely necessary to state that great consternation has been occasioned by these deplomble announcements on the part of the employers. Provisions—especially meat, classes, and butter—are still ruinously high, and the working classes have more than they can do to live on their present carnings. How they are going to manage things after "the reduction" heaven alone knows! Agents and masters are deeplow employers, and the desired coal. In the SOUTH WALES.—Our Aberdare correspondent writes:—During the past nonth we have had weather of almost unparalleled splendour, and we

course of their sinking operations these fortunate gentlemen have passed through three workable beds of good coal, in addition to which there appear to be two other seams of coal already proved. The much-prized 4-feet vein was reached at a depth of 75 yards. and proves—though the statement may appear parasioxical—to be 5 feet in thickness, Our Lianelly correspondent writes:—The Lianelly Docks are at present full of ships, many of considerable tomage, waiting for freights of coal. The trains on the Lianelly line are running four times a day, and there are often 90 trams after the engines, each tram carrying on an average 3 tons, making 270 tons by each train. At this rate 1906 tons a day would be brought to the docks. The St. David's line has sent down from the Bryngwyn Colliery, in the last fortnight, 1475 trams. Other pits in the district are doling as well. The tim-works are in full employ, all the furnaces having been lighted, after being out four months. Business at the potteries, however, is at present rather dull.

The vessels sarrived in harbour from foreign parts in the week ending April 27 include—Acacia, from Taital, with 613 tons of copper ore, for Bath and Sons; Louise, from Dunkirk, with 80 tons of old copper coin, for Vivian and Sons; Augusta Schnieder, from Cuba, with 322 tons of copper ore, for the Cobre Mining Company. During the same period, 57 vessels saited hence, with 22,511 tons of coal and patent fuel for foreign parts, of these the following were above 300 tons:—Chelydra, for Calders, with 400 tons of coals; Germania (3.53), for Rochelle, with 550 tons of Warlich's patent fuel; Engul Bride, for Montreal, with 550 tons of warlich's patent fuel; Engulation of Calders, with 400 tons of warlich's patent fuel; Sun Guisto, for Trieste, with 470 tons of Unity 71 tons of Warlich's patent fuel; Sun Guisto, for Trieste, with 470 tons of Unity 71 tons of Warlich's patent fuel; Sun Guisto, for Trieste, with 430 tons of Steam coal; Ehelbert, for Calders, with 528 tons of Forchamman Merthyr steam coal

COPPER MINES OF LAKE SUPERIOR-No. V. THE NATIONAL MINE.

The tract forming the National Mine immediately adjoins the western line of the Minesota Company's lands, and carries across its whole breadth the continuation of the same mineral veins. The agricultural and mineral lands of the company consist of 1700 acres, all in one body, well located, and admirably adapted to the business of mining, by reason of the excellent quality of the timber, and the abundant supply of water for washing mineral, use of engines, &c. From 1854 to 1858 the company has expended for mining works, machinery, and improvements \$110,147; and the sales of copper for the same period amount to \$88,648. All the efforts of the company for the last two years have been almost exclusively confined to the divelopment and opening of the ground adjoining the Minesota Mine. The vein upon which nearly all the efforts have been expended is the continuation of the Minesota vein, and is known as the south or conglomerate lode. Usually the opening of new ground is a very costly and unproductive operations is commonly regarded as indispensable, in advance of any very efficient demonstration towards working a mine proflataly. The instances are rare in which these preparatory labours in mining are performed at a smaller outlay than \$100,000 over and above the returns from the copper obtained in the operation. The National is a remarkable exception to this rule, having realised from the close of navigation in 1858 to Aug. 1, 1860, over 800 tons of 75 per cent. mineral, worth, after deducting all expenses of transportation, smelting, commissions, &c., not less than \$210,000 than not only relieving stockholders from assessments to defray the cost of opening the new mine, and providing additional machinery, but leaving a handsome surplus of \$85,734 86. E. Extracts from John Chynoweth's (unine capitall) report:—One of the new mine, and providing additional machinery, but leaving a handsome surplus of the new through the surface for its entire length. All the shafts are now competed with the addit, and Nos. 1,2, and 4 The tract forming the National Mine immediately adjoins the western line of the Minesota Company's lands, and carries across its whole breadth the continuation of the same mineral veins. The agricultural and mine-

Months.	No. of miners.	Sinking.	Drifting.	Stoping.	Copper raised each month.	Monthly mining expenses.	Average miners' wages.
loro T-1-	70	Ft. in.		Fms. ft.	Lbs. 80,341	\$ 5,123 39	\$32 92
1859. July August	76 84	50 9 81 11	178 0	75 27	80,604	5,296 00	32 69
September.		16 2	134 6	75 30	80,400	5,178 69	32 67
October	97	24 0	199 7	70 22	101,832	5,592 56	31 03
November.	113	23 0	344 9	106 23	63,987	6,697 99	83 60
December	110	79 7	269 3	94 2	66,153	6,704 94	34 46
1860. January		60 9	248 1	162 12	84,534	7,334 80	36 97
February			342 9	114 9	103,086	7,928 40	35 18
March	118	4 6	94 0	148 8	123,960		33 44
April	106	16 0	25 7	110 9	130,045	7,079 34	33 17
June		21 6	58 6	208 16	100,310		34 57
July	118	66 6		237 30	119,344	8,977 63	34 00
Total	102	444 8	1964 7	1468 31	1,134,596	\$81,457 85	\$33 72

warehouse, one carpenters' shop, six shaft-houses, with pulleys, chains, and kibbles, two barns, one saw-mill, one powder-house, two entithes' shops, one stamp and wash-house, two change-houses, one varehouse, and dock at the river landing.—Machinery: One large stationary engine; one engine for saw-mill, stamps, and machinery; one large portable engine and pump; one small ditto, two pumps, and gearings.

We have now over 100 acres of land under cultivation, and the product of the farm for the last year was—100 tons of hay, 50 tons of onts, 1600 bushels of potatoes, 1200 bushels of turnips, besides a large lot of vegetables of all kinds. Farming, doubtless, never will be the principal pursuit of the people of this peninsula, yet this branch of industry is being inaugurated, and may increase with great profit with the rapid development that exists of the mineral interests. Our lands also supply timber for the miner and other uses, wood for engines and families. The population of the National Mine is 336, and the company will soon be under the necessity of putting up some more new dwelling-houses for the accommodation of the men.

The mining works are under the superintendence of Capt. John Chynoweth, from Cornwall, who is deserving the full confidence of the company by his energetic and skilful co-operation in developing the mineral resources of the National Mine. To Mr. Wm. Webb, the able manager, the company is largely indebted for his faithful services and untring efforts, to which a great part of the success thus far obtained is due. The board of directors of the National Mining Company declared and paid their first dividend last January, amounting to \$2 per share, and besides they have a handsome surplus in the hands of the company's tressurer. The capital stock of the National Mine is \$500,000, divided into \$2,000 shares of \$250 seath, on which \$5 50 c. only have been paid-up by the original stockholders. The shares are now quoted at the Mining Boards of Boston and New York at \$25 to \$30; this low price is

vein—the saltheous, the receiving and the National; the product of copper veet ree companies is from 235 to 350 cons per month.

while the product of copper vein the product of copper

come up Lake Superior this summer, visit the mines, and examine for yourselves; you will be welcomed and well received by our best citizens; by your own countrymen, who are the managers of many of our most valuable mining establishments; and every facility will be afforded to you, without fatigue and privations, for a thorough examination of that wonderful country. From New York to Detroit, 36 hours by rail, fare \$12. From Detroit to Lake Superior, you take passage on board of those magnificent floating palaces—lake steamers, where you are accommodated with combrable state-room, epicurean table, and pleasant company; the voyage lasts three days, price \$10. At Lake Luperior, in the ports of Marquette, Copper Harbour, Eagle Harbour, Perdage, and Lake Ontonagon, you can put up and be well accommodated at the different hotels, kept in very good style, and board can be had at the moderate price of \$1,8150c., and \$2 per day. No excursion can be more romantic, pleasant, and healthy. Such is the bracing and life-giving power of the summer air, that it has become more than a Saratoga or the jaded basiness man and the invalid; and in almost every instance these who have thus sought renovation and life have been rapturous in their praises of its invigorating influences; the vitality and life it imparts are a positive locury.

Asset of the Ontonagon Mining District Assessition (Lake Superior).

es; the vicinity and me it imparts are a positive luxury.
F. A. ARTAULF,
Agent of the Ontonagon Mining District Association (Lake Superior).

TRUTH'S ECHOES; OR SAYINGS AND DOINGS IN MINING

TRUTH'S ECHOES; OR SAYINGS AND DOINGS IN MINING.

The account-day on Tuesday, and the half-yearly holiday in the Stock Exchange on Wednesday proved innovations on the general business of the week, otherwise there is medically interested in the stock of the stock of the week of the stock of

than any other man. Mr. Squire is acting a very wise and prudent part in accertaining the exact amount of fluxes, proportion of fuel, and every other particular, to preclude a failure; and it would be equally wise and prudent for the public to patiently await the result.

At WHEAL MOTE, the lode in the 12, under the adit, is represented as further improved, and now estimated worth 701, per fathom for thin and copper, and the lode in the winze has greatly improved. —At WHEAL ANNE (St. Anstell) the discovery noticed last week continues improving, and as they anticipate cutting the lode in the shallow adit in a few days, shares have advanced, and there is little doubt that they will be in fair request, as the mine is only in 100 shares. A water-wheel of 42 feet diameter is in course of erection, with all necessary machinery for returning the tin they have already in the floors. —At PENNALE Moon the old lode, which was recently cut into at the 30, is reported to be improving in value, producing rich stones of tin, and is a well-defined lode, and likely to become permanently productive. There are other important points to come of shortly which are being watched with considerable anxiety.

At GREAT NORTH TOLOUS the discovery recently made at the flat-rod shaft continues to improve in sinking; the matrix of the lode is of precisely the same character as all the highly-productive mines of the locality, whilst its geological position is undeniable. It is thought that a very short time will elapse before the two shafts will be simultaneously sinking, and excellent oray ground being developed. —WHEAL GRENVILLE is represented generally to have improved, and that the prospects are of a more encouraging character. The highly-promising appearance of the lode is sufficient to infuse the most sanguine hopes: whilst a very encouraging che has recently been cut in the east part of the mine. —At North Providence (St. Ives) the chief operations at present are confined to the sinking of the spine-shaft, which is down about 8 fathoms

Throm Mr. Edward Cooks:—The market has been very animated during the week. The excitement caused by the late improvement in East Grenyllize is still kept up, to the prejudice of many other legitimate concerns that deserve more attention than is now being bestowed on them. Without wishing for one moment to detract from the importance of the recent Improvement in East Wheal Granville, we feel confident that the mine we have written so much and so strongly about for some time past will contrast most favourably with this or any other mine in Cornwall in the same stage of development—we allude to Wirsal Motle. The question is frequently ssked—What will be the amount of calls required to bring it into a dividend state? Our own opinion is that it would be desirable to make a call of 2s. 6d. at the next meeting, in order to pay for all the machinery and any liability that may be then existing. From that time the mine, we are confidently informed, can be worked at a large profit, hence some are of opinion that the question of any call can be dispensed with. This, however, will be left to the judgment of the shareholders at the next meeting, in June. A letter from the mine has been received containing intelligence of an important improvement in the rise in back of the 12 fm. level; this is about 23 fms. from the surface. Further information is expected, and we may refer to it again. Shareholders should not be dis-

some are of opinion that the question of any call can be dispensed with. This, however, will be left to the judgment of the shareholders at the next meeting, in June. A letter from the mine has been received containing intelligence of an important improvement in the rise in back of the 12 fm. level; this is about 32 fms. from the surface. Further information is expected, and we may refer to it again. Shareholders should not be disappointed at not seeing shares in Wheal Moyle fluctuate as in some other mines. They are steadily and permanently rising, and it will not surprise us to see them some 20s. or 30s. higher before another month has transpired. Our readers may wonder, with our capital and a large balance in hand, and the mine working at a profit, it is difficult to account for this strange anomaly; 70 tons of lead has just been sold, and another parcel being prepared for the market. The prospects of the mine were never better than at the present time; they are of a high order, and the first—of what we consider will be a continuance—dividend will probably be declared in August or September next.

The Dividend Mines, with few exceptions, have been neglected lately, and have, consequently, receded to prices that should tempt an investment in some of them. No doubt the prices ruled too high for them for some time previous to the drop. Mining properly ought really to pay at least 15 per cent. This alludes to established mines, for exceptions must be made to mines just entering a dividend state, as they are supposed to contain the resources for giving dividends for a long period, therefore this class of mines generally command a high price in anticipations of their future profits—East of mines generally command a high price in anticipations of their future profits—East of mines gone attention. The mili say that this mine is worth 110,0001. to 120,0001.

If the present rate of dividend is to be a criterion for the future. This, however, we presume is not the case, as the dividends will gradually increase, and we

being brought out until they have fully satisfied themselves, through disinterested parties, that they will have a fair chance for the money intended to be invested. It may be said that we wish to disparage other properties for the purpose of advancing those we are immediately interested in; such is not the case. It is only fair to state that such mines as we are immediately interested in—North Minera, Wheal Moyle, and Bryn Gwiog —we solicit the fullest investigation into their merits by anyone. There is no difficulty in ascertaining their present and prospective prospects, as every facility would be afforded by the respective agents for an inspection of either of these mines. As we anticipated last week, Wireal Unity have advanced several shillings per share, owing to the improvements recently reported from the mine. A slight improvement in Wireal Wireal Cossoo's (Liskeard) would cause the shares to advance to 20s. or 25s., while, with the 7s. 6d. call just made, the shares may be had at 12s. to 14s. It is such mines as this that should be bought into for speculation when the price recedes to such ridiculous low figures as have ruled of inte. Referring again to Wireal Moyle, the report in another column will give some idea of the position of the mine. Time and patience only are required to bring the property into a profitable state.

FOREIGN MINES.

T	EN AND	QUÆNANGEN	MINES	-Estimated	produce f	or March
	Mines		Ore	. Per	cent.	Copper.
	Quænang	en	.Tons 70	*******	8	
	Raipas .	************	22	******	51/2	
	Old Mine		112	*******	434	
		lines		*******	5	0.800
	Michell's	**************	3	******	5	
	Quanvig	*************	2	*******	5	0.100

Total.......Tons 225

Mining Report from March 20 to April 11.

QUENANGEN.—On lode E the hard bar of ground on the east side of Cole's shaft still inclines westerly as we deepen, and latterly the produce from this place has been deteriorated by the large proportions of capel intermixed. We are now extending the stope more westerly, where we expect to find the ore to be of better quality. In the 10, west stope, the lode is large, and yields from 5 to 6 tons of good quality ore per fathom. In the cross-cut south we began some weeks since the ground is favourable, but is not yet in far enough to strike the velns dipping away from the main inde. The deep adit east progresses invourably, where the lode is promising, with small strings of ore intermixed. In the east whim-shaft (which we purpose calling Saxe's shaft, below the shallow adit; the lode is regular, with a leader of solid yellow ore about 3 in. wide; the stratum is also of a very congenial description, and every means is being used to expedite this important undertaking. In the shallow adit cast the prespects continue good, where the lode is 3½ feet wide, worth 3 tons of ore per fathom. The new foot stope, about 16 fms. east of Saxe's shaft, turns out from 4 to 4½ tons of ore per fathom, where the lode is large, with promising indications. Lode G is equally large, which we continue to stope westerly from the sink, it yields from 4 to 5 tons of ore per fathom, but the quality is still deteriorated by the abundance of iron intermixed.

Rapas.—In the sink below the 30, on Laboucher's lode, the leader of ore is of good quality, with a kindly appearance, but still rather small. In the other stope, below the same level (the 30), the orey ground continues from 5 to 6 feet wide, yielding about 3½ tons per fathom, the average quality of which is still rather low. As we can only expect to work here a few weeks longer before the water begins to rise, we have increased the number of hands, to get down as far as possible whits dry. The ground is of a very promising des

of a very promising description in the 10 north-west, with minute veins and spots of purple ore intermixed. The last year's returns are all driven down, and fully bears out the monthly estimates.

OLD MINE—The matrix of the lode, chiefly quarts, in the 10 south, is not so friable as generally, and the progress is rendered slower thereby; the appearances, however, continue favourable, and it turns out 3 tons of ore per fm. The stope in the roof looks well, where the lode is large, and worth from 4½ to 5 tons of ore per fm. In Bergmester's south stope the lode is 9 ft., wide, worth 3 tons of ore per fm. In Bergmester's south stope the lode is 9 ft., wide, worth 3 tons of ore per fm. In Bergmester's south stope the lode is 9 ft., wide, worth 3 tons of ore per fm. The work produced from No. 1 foot-stope has latterly been mundicy and of low quality, but we are now opening further north, where there is a good-looking calc-spar, and the ore appears and mundic, with spots of ore. This working is now getting into the proximity of the eastern cross-courses, and irregularities in the lode may be expected; it is, however, very desirable to explore this part of the mine, being all unwrought ground. The level and stope south of Peterson's rise looks well, where the lode varies from 1½ to 3 feet wide, yielding 4 tons of good work per fm. In the workings north of the rise the lode varies from 3 to 7 feet wide; there are large proportions of quartz internized, and the ore is dispersed in large irregular patches throughout the whole extent; the latter may be valued at 3 tons per fm. Branchess of calc-spar, from 3 to 4 in. wide, spotted with ore, are being met with in the midway cross-out, where the ground continues favourable. From the present direction of the lode in the 10 there remain about 5 fathoms more to reach it with the cross-out. The ground has been hard for several fathoms in Carr's adit, but we fully expect to reach a easier stratum soon; we have no reason to complain of the progress hitherto made, it being in full 6

are breaking some good work, and the lode looks promising.—CHARLES TREERASE.

NEW GRAND DUCHY OF BADEN.—Munsterthal, April 29: At Schindler engine-shaft, in the 54 north, now extended 11 fms., we have still about 3 ft. of the lode, which is worth 7t. per fm.; the other part averaging 2 ft. wide, and worth 9t, per fm., is stripped down to within a short distance of the end, and the men from there have commenced rising in the best part. The same level south is extended 6 fms. 1 ft. 6 in.; there is nothing new to mention of the lode here, as the end since my last report has been driving in the country by the side of it. The 44 north is now extended 45 fms. 0 ft. 6 in.; about 2 ft. of the lode is in the present end; a large proportion is fluor-apar and quartz, intermixed with spots and small strings of ore, a part of which is saved for dressing. The same level south is extended 22 fms. 0 ft. 9 in.; in this end we are now carrying 1½ ft. of the lode, which is worth 8t, per fm. The stope in the back of this level is worth 9t. per fathem.; the stopes in the back of this level, north of the shaft, are worth on the average 8t, per fm. The 3t north is extended 67 fms.; 1 foot of the lode carrying with the end is still producing a little awing work, with occasional good stones of ore. The composed chiefly of quartz and filtor-syar, with some good quality work in different parts of it, but not enough to pay for taking away. The same level south is extended 48 fms. 1 ft. 6 in.; the lode is 9 in. wide, worth 4t. per fm. The stope in back of this level is worth 6t. per fathom.

PACHUCA.—Capt. Paull, March 26: In my last I mentioned that we had reached the south part of the Viscaina lode, in the adit and San Juan levels: we are still driving on the same part towards the junction with Las Maravilla's lode; the ground is very loose to the north, but the south wall is firm. Mr. Chynoweth has been in the city for some time; on his return I intend cutting through the lode towards the north or footwall, so as to ascertain the width and most promising part to continue the levels on. After sinking several varas on the tabones, in Los Animas winze, the lode changed to nearly all quartz, with very pretty pintas; but, at the same time, wecut so much water that it has prevented us from sinking for the last fornight. I expect the water is coming from the workings of the old shaft in the arroyo. After the winze is cased down we shall endeavour to drain the water with botas (bullocks' skins). The whim is put up at San Juan shaft. I have procured the whim-pulleys and materials for making ropes, which I hope to get made next week. We have completed the whim-round at San Luis, have cleared and secured the shaft 45 varas, and have discovered two levels nearly full of water, which, no doubt, is from the surface. After clearing about 3 varas more I shall be able to ascertain the extent of each level. According to old reports, the one driven north of west, towards the Viscaina, is in metal. Our prospects are improving every month, and by the time Mr. Chynoweth leaves I trust he will take home very satisfactory information for the sharcholders.

United Mexican.—Guanaxuato, March 25: Jesus Maria y Jose:

United Mexican.—Guanaxuato, March 25: Jesus Maria y Jose United Mexican.—Guanaxuato, March 25: Jesus Maria y Jose: The state of this mine may be considered about the same as last reported. In the frente of La Triniada the width of the ore, which is of good quality, continues about 2 varas. San Pantaleon has about 3 varas of ore, not so good as originally. San Roberto is excellent as a Providencia, but the ore not so wide as before. A poso in the latter is also in very good ore; this is a recent work, but not that to which I referred on Dec. 14, and which sometime since communicated with San Telesfore, and now forms the roadway for the conveyance of the ore to the shaft. A pozo has been commenced also from the work of La Trinadad, and is in excellent ore. The level of San Andres has not reached the point at which it is hoped we shall meet with the cuerpo of rich ore, but spots of very good ore are appearing. The low level called San Rafael is being driven out of the vein, in order to get forward with the greater speed, and when sufficiently advanced a cross-cut will readily discover what the vein contains. In four weeks the buscones' sales have produced \$ \$597\$, those by day miners \$20,908, for \$500 eargas (he best) sold out of 5502 cargas extracted—the difference sent to the haciendas. The raspa, concluded at the beginning of the present month, gives \$16,052 (the dutes and expenses, \$748, not deducted), which is very near \$2 per carga for the gold only, the ley of which is 2004 grs. per mare. The profit on the month of February reached \$20,058.—La Trinida: Nothing of importance has occurred.—Remittance: A conducts is to leave the first week in April, by which I shall be enabled to remit to England from \$45,000 to \$50,000.

dad: Nothing of importance has occurred.—Remittance: A conducta is to leave the first week in April, by which I shall be enabled to remit to England from \$45,000 to \$50,000. but the shall be called to remit to England from \$45,000 to \$50,000. but the shall be called to remit to England from \$45,000 to \$50,000. but the shall be called to remit to England from \$45,000 to \$50,000. but the shall have the shall be enabled to remit to England from \$45,000 to \$50,000. but the shall have the shall have the shall be enabled to remit to England from \$45,000 to \$50,000. but the shall have the sh

rould caution the public against many of the new concerns that are on the eve of properties.—Caunter Lode: The lode in the 50, west of Taylor's engine-shaft, is 6 in. wide, composed of quarts, spotted with copper ore and mundic.—Great Caunter Lode: The Lode in the 20, west of Cole engine-shaft, is 1 ft. wide, composed of flookan and quarts. per fm.—Cannter Lode: The lode in the 50, west of Taylor's engine-shaft, is 6 in. wide, composed of quartx, spotted with copper ore and mundic.—Great Cannter Lode: The lode in the 20, west of Oak engine-shaft, is 8 ft. wide, composed of flookan and quartz. The lode in the 30, east of Oak engine-shaft, is 8 ft. wide, composed of flookan and quartz. The lode in the stopes No. 13, in back of the 20, west of Oak engine-shaft, is worth 1 ton per fathom.—Ponto Lode: The lode in the adit level, west of the Caima, is 6 in. wide, unproductive.—Silde Lode: The lode in the 38, west of the Mill lode, is 1\(\frac{1}{2}\) ft. wide, worth \(\frac{1}{2}\) ft in becker the lode in the 28, west of the Mill lode, is 1\(\frac{1}{2}\) ft. wide, worth \(\frac{1}{2}\) ft in per fm. of copper ore. The lode in the rise above the 28, against Abel's winze, is feet wide, composed of flookan and quartz. The lode in the 20, west from the great caunter lode, west of Oak engine-shaft, is 1\(\frac{1}{2}\) fto twide, composed of flookan and quartz.—Carahlal Mine: The lode in the adit, west of the Caima, is 7 feet wide, composed of quartz, municic, and small nests of lead. The lode in the south adit, west of the Caima, on Frelön lode, is, including all the branches, 4 feet wide, composed of quartz, with stones of mundic.

CLARENDON CONSOLIDATED.—Capt. Martin. April 3: Stamford Hill:

west of the Caima, do Freion 2006, is, including all the transfers, a few with, composed of quartz, with stones of mundic.

CLARENDON CONSOLIDATED.—Capt. Martin, April 3: Stamford Hill: The lode in the shaft sinking below the 82 is 4 feet wide, composed of prian, killas, peach, and oxide of iron. We are down 7½ fathoms below the 82, and I have offered the native shaftmen a reward if they complete the sinking to the 94 by May 20 next. The north part of the lode, in the \$2, west of the cross-course, is not quite so good as when last reported, having been disordered by a cross branch, but I think it will soon make good again; the lode is 3 feet wide, with veins of yellow copper ore running throughout. We have driven about 6 fathoms east and west on the lode in this level, which has produced 7 tons of ore, which we are dressing. The south part of the lode, in the 70, west of the shaft, is composed of light porphyry and peach; I intend driving a few fathoms more at this point, and then drive northward to cut the north part of the lode to prove it in this level also, which will be about 27 fathoms to the west of the shaft. We have met with a large lode in the 46 cross-cut, it is about 4 feet wide, and letting out a great deal of water, and is composed of white clay and prian, with green carbonate of copper and gossan—a very pretty-looking lode, but I think we have some fathoms to drive yet before we shall cut the Charing Cross lode. All the machinery is working well, and the men pushing on comfortably together.

MINING NOTABILIA

[EXTRACTS FROM OUR CORRESPONDENCE.]

MINING IN THE CALDBECK FELLS.—Knowing the Journal is always open to communicate good news, I forward a few lines respecting the mines in this district. A little new mine, called RED GILL, is causing much excitement, from some good discoveries being made. The RCOURIFERNILL MININ, which is close at hand, is also doing well, and likely to continue so for a long time. At the DRIGGITH MINE they have discovered a bunch of rich copper ore, worth at least 60; per fathom, and the agents say the mine throughout, independent of this discovery, has not looked so well for the last five years. They have runs of orey ground gone down in the bottom of the 80, 250 fms. in length, and when the new level, 32 fms. below this, reaches these runs of ore, this will be a lasting and valuable mine.

CASARA LEAD MINE — A variable. MINING IN THE CALDRECK FELLS.—Knowing the Journal is alway

CASARA LEAD MINE.—A new lode has been intersected in the 30 cross-tiesat; it is from 2 to 5 feet wide, composed of carbonate of lime, and producing some he lumps of lead. This is a lode of very great promise: 20 tons of lead ore will be

CUDDRA.—The lode in the engine-shaft, sinking below the 90, is much improved, it is 3 ft. wide, 2 ft. of which is composed of soft spar, black cre, and mundle with a leader on the south wail 1 ft. wide, composed of rich grey and black copper cres and promises well for further improvement. The stopes in the 80 and 90 are producing some good copper ore. About 40 tons of moderate quality copper ore will be sold or Thursday next. The large stamping-engine will be put to work about the 18th inst. after which regular sales of tin and copper ores will be made.

anter which regular sales of the and copper ores will be made.

NORTH PROVIDENCE (St. Ives).—The engine-shaft is down \$\mathbb{S}\$ fathoms from surface. It is being sunk by nine men, at 121, per fathom, a price much less than some agents contemplated, but at which the men get fair wages. The adit end is being continued west on Pedn Olver lode, and some good copper ore is taken out, at present of sufficient value to pay for driving. The indications, taken generally, hold out the most flattering prospects of success, analogous to that in the mines immediately west of this (Wheal Trenwith and St. Ives Consols). The foundation for the engine-house will be ready in a few days, and the engine will soon be on the ground, and Mr. W. H. Gray will quickly set up and put it in motion. All Mr. Spargo's mines are likely to tarn up prizes.

EAST GOLDING.—The engine-shaft has been sunk about 28 fms. below surface, the iode rich for silver; two levels are being driven from the bottom of aft; the north end will produce 10 cwts., and the south end 7 cwts. per fm. The se-shaft will be commenced sinking again in two or three days.

WEST DOLCOATH .- The engine about to be removed from a St. Kew to West Dolcoath, near Camborne, is a 40-in, cylinder, and Mr. W. H. Gray the engineer employed to set it up, which he will do forthwith; after which the bot mot of this old mine will soon be explored, after being nearly fifty years under wate. The old company, poor men, gave it up from want of funds to put up an engine, at a tin when mining was not so well understood and appreciated as at present, consequent shares not so freely subscribed for. The copper ore raised was of high percentage metal, specimens of which have been taken from the burrows.

EAST ALFRED MINE has not looked so well for a long time as at present

WEST SNAILBEACH.—The agent confidently expects an important im-ovement in the 64 east. Should a discovery be made here it will amply reward all ose interested for their considerable outlay. The end already looks very fayourable, d is producing some good stones of ore.

GREAT NORTH TOLGUS.—Within the last few days the lode (I think Wheal Mary lode) has been cut at the flat-rod shaft, the size of which is about 2 ft., and the contents yellow copper ore, &c. I saw some of the copper ore, which is of good quality, and the agent says that it improves as the shaft deepens, the shaft being now sinking on it. This discovery has imparted an increased value to the property, and given great encouragement to the manager (Captain Dale) and to the others concerned. It is believed that they have reached the top of a rich bunch, and I trust that the company will soon be crowned with great success.

NORTH WREY.—At a meeting last week, on the mine, of the landowners intity interested with the Right Hon. Baron As burton in the Common Wood and other ands adjoining the northern boundary of this sett, the valuable grant of 180 fathoms of round, on the run of the main lodes, was, on the application of the secretary, most libedly added to this company's possessions, free of charge. It is believed by several agents relia caquainted with this property that two or three more copper lodes will be interested in this additional grant, which fact, and its proximity to the Caradon district, disvery greatly to the value of this most praiseworthy liberality, while it gives entargement to the company who are so spiritedly developing the mine.

NEW CROW HILL.—The lode in back of the 15 is worth about 5L, per fim. or lead. The south lode, in the 15 end, is now being driven through, and the value will

ith lode, in the 15 end, is now being driven through, and the value w d. On the 24th ult. they sold 2 tons 10 cwts. 2 qrs. of silver-lead, p.

NORTH PROVIDENCE MINE.—The engine-shaft is being sunk with all possible expedition, and Mr. W. H. Gray, the engineer, is now (Tuesday) on the ground, giving directions to the masons for the erection of the engine-house, which in a short time will be ready to receive the machinery. The intended sea-wall awaits the sanction of the Admiratly, who cannot have any reasonable objection to it, nor can the corporation or inhabitants of St. Ives, inasmuch as the wall would be an improvement to the place, and an injury to no one in the world. I think that the company will find their efforts amply rewarded shortly after the engine has enabled them to open a little on the lode, which is now under water, but the character of which is such as to warrant sanguine hopes of abundant returns.

guine hopes of abundant returns.

THE Gran-r-Pwill Slate Quarry.—We are glad to see by the report in this day's Journal, from the manager of this quarry, that the slate-rock is so much improved in the ltunnel, which has now been driven 68 yards, and that the opinions of several practical men who have visited the quarry this week fully confirm the manager's report. We understand the subscription list for this company will soon be closed and that the concern has been well-supported by most respectable parties.

GLAMORGANSHIRE LEAD AND BARYTES MINE .- In last week's Mining ernal we referred to the formation of a company for working some valuable prop Giamorganshire, and we are gid to learn that the subscription for shares is progr satisfactority. Our North Waies correspondent has lately shown the vast riche found in the mountain limestone district of North Wales—the celebrated Minera t; and it is declared that the mountain limestone districts of Giamorganshire, wi t; and it is occared that the mountain limestone districts of Giamorganshire, which geologically a continuation of the celebrated lead-producing Mendip Hills, will be ind worthy rivals of their brethren of the North. In the village of Langan, the seat of above company's proposed operations, and on contiguous lodes, there are the remains its and smelting works which were carried on some 150 years ago, when steamer was unknown, and which, it is said, made the fortune of a family now resident on spot. The promoters are certainly entitled, as the pioneers of mining operations in mparatively new district, to success in their enterprise.

THE TIN TRADE.—Mr. N. Breebaart (Goll and Co., Amsterdam), under late April 30, writes:—Although the position of the market has been in general very epressed, we have to report more activity in this article than there was reason to exect. Frices had gradually receded to 73 fl., and even a further reduction appeared proable, when some English orders gave rise to some rather important transactions, and aused a sudden reaction. In consequence of the small quantity in the market, but few riders were required to bring about this favourable change. An advance in English tin trengthened the market still more, and in a few days the price returned to 75 fl., at which 100 slabs were sold yesterday.

NANCA TIN.

1861. 1860. 1859.

 1100 slabs were sold yesterday.
 nanca Tin.
 1861.
 1860.

 The stock on warrants amounted on April 30
 ...Slabs
 41,454
 .39,685

 Deliveries in April
 9,188
 6,530

 Stock on warrants April 30
 32,266
 33,155
 21,076

 Stock in hands of Trading Society, for their annual sale
 126,362
 127,880
 120,780

Stock in hands of Trading Society, for their annual sale... 136,362... 127,880... 120,750 lt would appear the above purchase, as well as the others which occasioned the improvement, have been made to cover some sales made at former periods in England by English speculators. Business for consumption has been on a very limited scale, although the deliveries have been much larger than at the same period last year; but as the advance in London supports our market here, and as the holders of the remaining stock are by no means pressed to sell, the present position can easily be maintained, and it would not be at all surprising if, as usual, prices were to become still firmer, in proportion as the period of our annual sale approaches.

-Messrs, Von Dadelszen and North (May 3) state that this article TIN.—Messrs. Von Dadelszen and North (May 3) state that this article has been subjected to a great and unexpected reaction during the latter portion of the past month. At its commencement the market was without life, holders of Struits coactiuuing to press sales, and the flatness was increased by a reduction in the price of English on April 5. This, as often happens, seems to have been the starting-point for a movement the other way, buyers appearing to think that the bottom was reached, and buying rather freely for consumption. Nothing, however, appeared likely to alter the even tenor of the market until a sudden and eager demand taking place, all at once sell-cers refused to name a price; this seems to have brought about the result anticipated by the authors of the movement, but certainly not by the trade in general. From there being sellers at 1161., Straits suddenly went to 1221., and when the smalters advanced the price of English 51. on April 23 buyers appeared panic stricken, and rushed into the market and bought eagerly at 1261.; fully 3000 stabs must have been done at this price alone. After a few days the market became more quiet, and there were sellers at this price; now, although bolders generally adhere to this in their demand, business has been done at 1241., and offers of this price would not be refused. As the smelters decline at present to book orders, we may see some little demand for immediate consumption

until this alters, although foreign is considerably higher in proportion than English. With reference to the statistics of this article in Holland, they show a marked change. The excess of supply over last year, which on March I was 39,363 slabs, by April I was reduced to 22,375 alabs, and is now only 7428 slabs. This has been caused by the deliveries being considerably more than last year, and the arrivals much less. Many now doubt whether the quantity at the sale will reach to 170,000 slabs, as anticipated last month. The shipments from the Straits continue to be large. The quantity on passage is now 651 tons, against 510 tons last year, while the supply both at Penang and Singapore is considerable, but any important fall in price is prevented by the demand that immediately springs up for India or China. The quantity of tin here and in Holland on April 30, 1861, was as follows, compared with the three preceding years:

Stock in Holland. Towards next sale. Stock here. Total.

Slabs. Tons. Slabs. Tons. Tons. Tons.

1861 32,266 970 136,367 = 4230 792 5992

1860 33,165 = 1010 127,850 = 3900 1150 6060

1859 21,046 = 650 120,750 = 3735 720 5105

Straits, which at the beginning of April stood at 1171., declined to 1184. 10s.; from this it recovered to 1164. 10s., at which it remained quiet for some time; from this it suddenly advanced, from continued purchases, to 1254., which is the price now generally asked for fine quality.

In Banca some business was done in the early part of the month at 1234., to arrive from Holland, soon after at 1254., then 1264. 10s., and finally at 1264., which is the price now generally price. In Holland, soon after at 1254., then 1264. 10s., and finally at 1264., which is the price now generally price. In Holland, soon after at 1254. The market declined to 736, but on the improvement in the market declined to 736, but on the improvement in the market.

asked for fine quality.

In Banca some business was done in the early part of the month at 1231., to arrive from Holiand, soon after at 1251., then 1261. 10s., and finally at 1281., which is the present price. In Holiand the market declined to 73 fl., but on the improvement in the market being known it advanced to 75 fl., which is the present quotation.

We estimate the present stock of tin in war house here (London) at 792 tons. The export of tin from Singapore from Feb. 22 to March 23 was—To Great Sritain, 952 pekuls; America, sil; and Continental Europe, sil; price 229. From Fenang during the same period the quantity was—To Great Britain, 2334 pekuls; America, 1441 pekuls; Continental Europe, sil; price 3271%.

Tin-plates have been in much better demand. Stocks in the hands of makers are nearly, if not quite, cleared of, and prices of charcoal are fully is, higher than at their lowest point, while coke are is, 6d. higher. The American crisis has checked the demand for the moment, but the trade is more hopeful.

SMELTING IRON AND OTHER ORES.—Some improvements upon the ordinary process of smelting have been invented by Mr. Slevier, of Upper Holloway. The
invention consists—first, in the means he takes to prevent the rapid destruction of the
lower part of the furnace, by reason of the intense heat produced by adopting the exhaust
principle; and, secondly, by making the crucible revoive or oscillate in various ways, as
well as move in the perpendicular direction, in order to expose different surfaces of the
crude metal and half-wrought iron to the action of the air or gases, as it falls and collects
on the crucible, which deoxidises it more equally, and produces a more malicable metal
from the ore than is produced by any other known process; thirdly, in employing, in
addition to the exhaust principle, ablast in certain parts of the apparatus, combining the
exhaust and the blast together, when such combination is applicable and useful.

SABATER AND DEVERY'S STEEL PROCESS.—This invention, communi-

SABATIER AND DEYEUX'S STEEL PROCESS .- This invention, communi-SABATER AND DETECTS STEEL PROCESS.—Into invention, communicated to Mr. Henry, the patent agent, Fieet-street, has just been specified. The usual mode of manufacturing articles in cast-steel has been to melt the material in a crucible, and run the steel, when fluid, into a mould. Now, Messrs. Sabatier and Dayeux propose to melt the material in a crucible shaped to correspond to the intended form of tyre or other article to be produced, so that when the metal is removed from the crucible it is not only melted, but muided into shape. The crucible is broken to remove the article, but its refractory material can serve again and again for the production of fresh crucibles,

Board of Admiralty, Somerset House.

HOATCH FOR COALS FOR HER MAJESTY'S

DOCKYARDS AND VICTUALLING YARDS, &c.—THE COMMISSIONERS
FOR EXECUTING THE OFFICE OF LORD HIGH ADMIRAL OF THE UNITED
KINGDOM OF GREAT BRITAIN AND IRELAND do hereby give notice, that on
Tuesday, the 7th May next, at Two o'clock, they will be READY to TREAT with such
persons as may be willing to contract for SUPPLYING Her Majesty's Dockyards and
Victualling Yards, Naval Hospitals, Koyal Marine Barracks and Inframaries, and the
Admiraity, Marine, and Coast Guard offices with COALS.
A distribution of the coals and a form of the tender may be obtained at the said office.
No tender will be received after Two o'clock on the day of treaty, nor will any be noticed unless the party attends, or an agent for him duly suthorised in writing.
Every tender must be addressed to the Secretary of the Admiraity, and bear in the
left-hand corner the words, "Tender for Coals;" and must also be delivered at Someratplace, accompanied by a letter signed by two responsible persons, engaging to become
bound with the person tendering in the sum of £20 per 100 tons for the due performance
of the contract.

Department of the Storekeners General of the Navy.

Department of the Storekeeper General of the Navy, Somerset-place, April 22, 1861.

TO INVESTORS IN MINES.—A TIN and COPPER MINE, stuate in a favourite locality in Cornwall, divided into 2000 shares, which are held almost entirely by local shareholders, REQUIRES for EFFECTUAL DEVELOP-MENT the ERECTION of a STEAM ENGINE of about 50 in. cylinder. The greatest depth of the mine from surface is 32 fms., at and above which level from 90 to 100 tons of copper ore, of the value of £700, have been raised and sold. The holders of about 1000 shares are prepared to contribute their portion of the future necessary cost for the erection of an engine, and the purser is hereby authorised to offer the remaing 1000 shares at par (8e, per share called up). The present prospects are very encouraging, and offer to mine secretaries or others a first-rate opportunity.—Address, "Purser of Cornish Tin and Copper Mine," Mining Journal office, 26, Fleet-street, London, E.C.

ADVENTURERS IN FOREIGN MINES.-MR. HARRY THOMAS VERRAN, of PLACENTIA, NEWFOUNDLAND, who has had considerable experience (under the tuition of his father, and in connection with many other experienced Mining Engineers) is ready to UNDERTAKE the EXAMINATION and REPORTING upon MINERAL PROPERTIES in Newfoundland, the United States, or any other country, where his services may prove useful to capitalists. The greatest confidence may be placed in Mr. Vernan, who will use his best judgment in giving reliable information to those who may repose confidence in him.

Placentia, Newfoundland, March 18, 1861.

NOTICE.—If Mr. HUNT, residing in Cornwall in April, 1860, DOES NOT FETCH AWAY the GOLD WASHING MACHINES LEFT in care of Mr. Wr. Maryon, 9, Stanhope-street, Hampstead-road, since the 19th day of January, 1855, in 14 days from this notice, THEY WILL BE SOLD BY PUBLIC AUCTION, to DEFRAY EXPENSES due on the same.

THE GREAT EXHIBITION OF 1862,—ONE FOURTH OF ONE OF THE MOST ESSENTIAL PATENTS ever brought before the world WILL BE GIVEN to ANY GENTLEMAN who will ENABLE the PATENTEE to MAKE a WORKING MODEL for the above Exhibition.—L1000 will be required to perfect, fix, and superintend the working at the Exhibition.—Address, "O. D.," No. 3, Christ Church-passage, Birmingham.

POR SALE, a good 30 in. PUMPING ENGINE and BOILER.
A 10 horse PORTABLE ENGINE FOR SALE OR HIRE. A GRINDER,
14 in. rolls, with wrought-iron spindles.—Apply to W. Mathews, Engineer, Tavistock.

FOR SALE, a CONDENSING WATER ENGINE, cylinder 53 in. diameter, 8 ft. stroke, lift of pump trees about 140 yards long, 12 in. end 12½ in. working barrels. A CONDENSING WINDING ENGINE, 20 in. cylinder, 4 ft. stroke.—For price, apply to Mr. WM. Haden, Dixon's Green, Dudley.

HIBERNIAN MINE COMPANY.—Notice is hereby given, that the stated QUARTERLY MEETING of the proprietors will be HELD at the office, No. 5, Dame-street, Dublin, on TUESDAY, the 7th May, 1861, at noon.

HUELVA COPPER MINING COMPANY (LIMITED).—

Notice is hereby given, that an EXTRAORDINARY GENERAL MEETING of the shareholders of the Huelva Copper Mining Company (Limited) will be HELD at No. 46, Parliament-street, Westminater, on THURSDAY, the 16th day of May, 1861, at One o'clock precisely, to confirm (if the meeting think fit), so as to give the same the force of a special resolution, the following resolution passed at the extraordinary general meeting, held on 18th April, 1861, viz.:—

"That the liquidators be, and they are hereby, empowered to compromise and settle all calls and debts due, or claimed to be due, to the company from any shareholder or other person, and all liabilities subsisting, or supposed to subsist, between the company and any shareholder or other person, and all debts due, or claimed to be due, by the company, upon such terms as they may think fit.

ALFRED HERVEY Liquidators.**

ALFRED HERVEY | Liquidators.

THE BEARIZ TIN STREAMING COMPANY (LIMITED).—
The LIST OF APPLICATIONS FOR SHARES in this company WILL BE CLOSED on MONDAY NEXT, the 6th of May.
By order of the Directors,
17a, Sise-lane, Bucklersbury, London, May 4, 1861.

NICKEL AND COBALT REFINING, AND GERMAN SILVER WORKS, 16, OOZELL STREET NORTH, BIRMINGHAM.
STEPHEN BARKER begs to inform the Trade that he has the following articles

for sale:-REFINED METALLIC NICKEL. | OXIDE OF COBALT. [WIRE, &c.
REFINED METALLIC BISMUTH. | GERMAN SILVER-IN INGOTS, SHEET
NICKEL AND COBALT ORES FURCHASED.

GOLDENHILL, COBALT, NICKEL, COLOUR, BORAX, AND CHEMICAL WORKS.

CHEMICAL WORKS,
NEAR STOKE-UPON-TRENT, STAFFORDSHIRE.
JOHN HENSHALL WILLIAMSON, MANUFACTURER AND REFINER.
Reference.—Professor Miller, King's College, London.

METALLURGICAL OFFICE.—A. VIMEUX AND CO.,
3, RUE DAVAL, BOULEVARD BEAUMARCHAIS, PARIS, are in a position to give every information respecting the solvency of any individual or firm connected with metallurgical industry in France.

Price for a single report

2s. 6d.

Price for more than ten, each.

2s. 0d.

Debts collected, and disputed claims negociated. The establishment of this office, the operations of which have been already fully appreciated, is of incontestable utility to the whole of the metal trade. Discretion, punctuality, activity, and rigorous enquiry may be depended upon. Correspondent, Mr. E. Vimeux, 80, Upper Stamford-street, London. Postage stamps may be sent in payment.

North of England Institute of Mining Engineers.

JORTH OF ENGLAND INSTITUTE OF MINING

ORTH OF ENGLAND INSTITUTE OF MINING ENGLAND, CENTRAL MEETINGS of the Members of this Institute will be HELD in BIRMINGHAM, on the 9th, 10th, and 11th of July next, detailed notices of which will be published and issued as the time approaches. Meanwhile, with the view of encouraging mining science and promoting the objects of the Institute, the attention of the mining interests, colliery managors, inventors, patentees, and the general public is invited, in order that all persons who may have models, plans, and patented improvements in machinery or apparatus used in mining to exhibit may iose no time in communicating with the managing committee, so that space may be reserved for them.

se reserved for them.
All communications to be addressed to Mr. THOMAS DOUBLEDAY, the secretary of the
lining Institute, Newcastle-upon-Type.
Members having gentlemen to propose or papers to be read are requested to signify
heir intentions before the 15th of May, in order that the committee of management may
rrange the proceedings of the three days in Birmingham, the details of which will be
lereafter published.
THOMAS DOUBLEDAY, Sec., 2011, 9, 2011. Newcastle-upon-Tyne, April 8, 1861.

BELL BROTHERS beg to intimate that, having become SOLE LICENSEES in the United Kingdom of Prov. DEVILLE'S METHOD of PRODUCING PURE ALUMINIUM, they are now in a POSITION to SUPPLY, from their works here, both this metal and its compound with copper, known under the na ALUMINIUM BRONZE.—Newcastle-on-Tyne, September, 1860.

TO BE SOLD, BY PRIVATE TREATY, the EXTENSIVE,
VALUABLE, and well established ENGINERRING, IRON FOUNDRY, and
ALLLWRIGHT WORKS, known as the UNION FOUNDRY, in BOLTON-LE-MOORS,
in the county of LANCASTER.
The LAND occupied by these works contains nearly four statute acres, situate in the

the county of LANCASTER.
The LAND occupied by these works contains nearly four statute acres, situate in the
ntre of the town of Bolton, is bounded on the east, south, and part of the north sides
wide and excellent streets, and the London and North-Western Italiway extends along
d adjoins to the whole of the west side thereof, and communicates with lines of railay of similar gauge laid down through the works.
The BUILDINGS are in good condition, and the works are laid out and adapted throught to the present requirements of trade. Several of the workshops have been recently
tirely rebuilt, and the establishment and working plant have been greatly improved
de remodelled during the last few years.

The BUILDINGS are in good condition, and the works are laid out and adapted througnout to the present requirements of trade. Several of the workshops have been recently entirely rebuilt, and the establishment and working plant have been greatly improved and remodelled during the last few years.

The BUILDINGS comprise large ERECTING, BORING, PLANING, TURNING, PITTING, and OTHER SHOPS: loam, green sand, and brass FOUNDRIES, BOILER SHOPS, FORGE, SMITHIES, PATTERN ROOMS, &c.

The counting-houses and drawing offices are large, commodious, well built, of recent erection, and replete with all necessary fixtures and office furniture and apparatus.

The manager's house (adjoining part of the north side of the works) contains a spacious hall, two parlours, two kitchens, five bedrooms, and other conveniences. There are two houses for workmen, and another house, for the watch-keeper.

The outhousing comprises a coach-house, saddle house, stabling for twelve horses, and all other requisite outbuildings and appurtenances.

The manager's notice (adjoining part of the north side of the works, commans a spacetors, the partours, two kitchens, five bedrooms, and other conveniences. There are two houses for workmen, and another house for the watch-keeper.

The outhousing comprises a coach-house, saddle house, stabiling for twelve horses, and all other requisite outbuildings and appurtenances.

The WORKING PLANT consists of FOUR STEAM ENGINES and BOILERS for driving same, with turning lathes, planing, boring, slotting, screwing, drilling, grooving, and whele-cutting menhines; cranes, cupolas, moulding boxes; holler-making machines and tools; faus, smiths' hearths; weighing machines, lorries, gas, steam, and waterpipes, railways, and all other requisite machinery, tools, implements, and utensils required in a large engineering and miliwright establishment.

The PATTERNS include above 1100 of spur, mitre, and bevel wheels; a large assortment of stationary, portable, and marine engines; water-wheels, hydraulic presses, dredging machines; gas apparatus, cranes, bridges; sugar mills, sugar pans, saw mills; pulleys and general millwork; bleachers, printers, collery, and other work connected with the requirements of the manufacturing businesses of the district.

The works, which are dashed for the employment of from 600 to 800 men, have been in axistence above 60 years, and during more than 40 of that period have been carried on in succession by the two entinent firms of Rothwell, litick, and Rothwell, and R

LIST OF PRIZE SUBJECTS FOR SESSION 1861-62.

THE ROYAL SCOTTISH SOCIETY OF ARTS proposes to

THE ROYAL SCOTTISH SOCIETY OF ARTS proposes to AWARD PRIZES of different values, of Thirty Sovereigns and under, in Gold or Silver Medals, Silver Plate, or Money, for APPROVED COMMUNICATIONS, primarily submitted to the Society, relative to INVENTIONS, DISCOVERIES, and Improvements in the MECHANICAL and CHEMICAL ARTS in general, and in their relation to the FINE ARTS, and also to means by which the NATURAL PRODUCTIONS of the country may be made more available. The society suggests the following as a few of the many subjects that may be attended to, viz.:—

1.—INVENTIONS, DISCOVERIES, or IMPROVEMENTS in the USEFUL ARTS.

1. MECHANICAL ARTS.—Inventions or Improvements in Applying the Motive Power of Men and Animals—in Wind and Water Prime Movers—in Steam and other heat Engines, in Pumping, Blowing, Rolling, Sawing, Agricultural, and other Engines and Machines, in Cotton and other Textile Manufacturing Mills—in Shipbuilding, Wood, Iron, and Steel—in Lighthouses—in Marine Propellers—in Raliways, Plant, and Signals—in Electro-Magnetic Motive Power—in Electric and other Telegraphic Apparatus, Sub-Marine and Ærial—in Photographic Apparatus—in Fire-Proof Buildings—in Water Supply—in Paving—Sewerage—in Economical Appliances for Increasing the Santiary Condition of Towns—in Smoke Consumption and Extinguishing Fires—in Gas Works—in Canals and Inland Navigation—in Tools, Implements, and Apparatus for relations of Toddes, in Bricks, Encaustic Tiles, Cements and Mortars—in Principes—in Recording Timber and Metals in Marine Works—in Optical Apparatus for Astronomy, Surveying, and Eveling—in Manufacture of Paper—Experiments on the Effect of Low Temperatures on Metals.

2. CHEMICAL ARTS.—Inventions or Improvements in New and Useful Applications of Guita Fercha and Vulcanised India Rubber, or similar Gums—in the Economical Extraction of Chemical Principles or Useful Substances, as Paraffine, &c., from Coal—Porceases, in Tarken Princip, and in Methods of Injustrating Books, to be Printed with the Letterpress—in Die Sinking—in Meth

4. NATURAL PRODUCTIONS.—Bassed of the USEFUL ARTS.

II.—EXPERIMENTS applicable to the USEFUL ARTS.

III.—COMMUNICATIONS of PROCESSES in the USEFUL ARTS practised in this or other countries, but not generally known.

IV.—PRACTICAL DETAILS of PUBLIC or OTHER UNDERTAKINGS of NATIONAL IMPORTANCE already executed, but not previously published; or valuable suggestions for originating such undertakings.

KEITH PRIZE (value Thirty Sovereigns).—For some important "Invention, Improvement, or Discovery, in the Useful Arts, which shall be primarily submitted to the

KEITH PRIZE (value Thirty Sovereigns).—For some important "Invention, Improvement, or Discovery, in the Useful Arts, which shall be primarily submitted to the Society during the Session.

MAKDOUGAL BRISBANE BIENNIAL PRIZE (value £10).—To the Authors or Inventors of Communications of Merit, which shall be approved of by the Society, or its committee, and judged by them deserving of such distinction.

REID AND AULD PRIZES.—For the First, Second, and Third Best Models of "Anything New in the Art of Clock or Watch Making, by Journeymen or Master Watch and Clock Makers." If these should be considered worthy of prizes, the year's interest of the Reid and Audi Bequest, being about Seven Guineas, divided among them in such is proportions as the prize committee shall fix, according to merit. To such as deserve it, the Society may add to the amount of fix, according to merit. To such as deserve it, the Society may add to the amount of the prize out of its general funds.

Communications lodged in competition for prizes shall not have been patented, nor previously published, nor read before any other society. Patented articles may, however, be exhibited and described. The descriptions of the various inventions, &c., must be fall and distinct; be legibly written on foolscap paper, leaving margins at least 1½ inch broad on both sides of each page, so as to allow of their being bound up in volumes; and, when necessary, be accompanied by specimens, drawings, or models. All drawings to be in bold lines, not less than a quarter of an inch thick, or strongly coloured, so as to be on imperial drawing-paper, unless a larger sheet be requisite. The drawings to be in bold lines, not less than a quarter of an inch thick, or strongly coloured, so as to be easily seen at about the distance of 30 feet when hung up in the hall, and the letters or figures of references bon handles, drawings, drawings to be in the hall, and the letters or figures of references to be at least 1½ in. long. When necessary, smaller and more minutely detailed dr

GOVERNMENT OFFICIALS-REDUCTION IN SCALE OF PREMIUMS

THE EUROPEAN ASSURANCE SOCIETY ISSUES iralty, and othe POLICIES of GUARANTEE, at reduced rates, for officials in or u Customs, Inland Revenue, Board of Trade, Poor-Law Board, Admir a departments, and for bank and railway clerks and persons in co

Further reductions on the combination of life assurance with guarantee. Annuitie

manted on favourable terms.

Formand every information may be obtained at the chief office, No. 2, Waterloo lace, Pall-mail, London.

LICESTER AND CO. (late Leicester, Brache, and Teague),
CONSULTING MINING ENGINEERS AND SURVEYORS, AND GENERAL
MINING AGENTS, MELBOURNE, VICTORIA, PROCURE MINING LEASES on
ELIGIBLE TERMS from the GOVERNMENT of VICTORIA and NEW SOUTH
WALES, on receipt of a remittance for £200, to cover costs of lease, survey and report,
&c. Mesers. Lucesters and Co. OFFER to TAKE the MANAGEMENT of MINING
COMPANIES, and PROVIDE OFFICE ACCOMMODATION, for a percentage on the
wrotests of the company.

routs of the company.

For further particulars, apply to Mr. RICHARD MIDDLETON, Mining Journal office, Fiest-street, London, E.C. s must be made through our bankers, the Union Bank of Australia.

on

In the Court of the Vice-Warden of the Stannaries

PURSUANT to an Order, or Decree, made in the Cause of SAMPSON AND ANOTHER v. UNSWORTH, the CREDITORS in respect of SOUTH LADY BERTHA MINE, in the parish of Buckland Monachoram, within the said Stannaries, are, on or before the lith day of May next, to COME IN and PROVE THEIR DEBTS before the Registrar of the said Court, at his office in Truro, or, in definit thereof they will be excluded the benefit of the said Decree.

Dated Registrar's Office, Truro, April 26, 1861.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN RE NORTH DOWNS AND WHEAL ROSE UNITED MINES. O BE SOLD, pursuant to an Order made in the Cause of GREENWOOD v. HAWKE AND OTHERS, dated the 23d day of March last, BY PUBLIC AUCTION, ar the Registrar's Office, Truro, on Wednesday, the 8th day of May next at Trails of

87 FUBLIC AUCTION, ar the Registrar's Office, Truro, on Wednesday, the 8th day
day next, at Twelve o'clock at noon precisely—
100 (6000ths) SHARES of the defendant Richard Hawke.
25 (6000ths) SHARES of the defendant Afred Jeffree.
25 (6000ths) SHARES of the defendant John Hambly,
10 (6000ths) SHARES of the defendant John Hambly,
10 (6000ths) SHARES of the defendant John McLean.
80 (6000ths) SHARES of the defendant William Frazer; and
60 (6000ths) SHARES of the defendant John McLean.
80 (6000ths) SHARES of the defendant John McLean.
81 (6000ths) SHARES of the defendant John McLean.
82 (6000ths) SHARES of the defendant John McLean.
83 (6000ths) SHARES of the defendant John McLean.
84 (6000ths) SHARES of the defendant John McLean.
85 (6000ths) SHARES of the defendant John McLean.
86 (6000ths) SHARES of the defendant John McLean.
87 (6000ths) SHARES of the defendant John McLean.
87 (6000ths) SHARES of the defendant John McLean.
88 (6000ths) SHARES of the defendant John McLean.
89 (6000ths) SHARES of the defendant John McLean.
80 (6000ths) SHARES of the defendant John McLean.

In Chancery.

YORKSHIRE.—FREEHOLDS, COPYHOLDS, AND BEDS OF COAL, LAKE LOCK, NEAR WAKEFIELD.

TO BE SOLD, pursuant to an Order of the High Court of Chancery made in certain Causes of HOYLAND v. HEMINGWAY, and HOYLAND v. HEMINGWAY, and HOYLAND v. HEMINGWAY, and HOYLAND v. HEMINGWAY, and by arrangement with the owners, with the approbation of the Vice-Chancellor Sir Richard Torin Kindersley, the Judge to whose Court the said causes are attached, by Mr. Edward Lancaster, the person appointed by the said Judge, at the Strafford Arms Hotel, in Wakefield, in the county of York, on Monday, the 13th day of May, 1861, at Two o'clock in the afternoon, in six lots, VALUABLE FREEHOLD and COPYHOLD ESTATES, situate at or near LAKE LOCK and ALTOFTS, near WAKEFIELD, in the county of York, containing 40 acres or thereabouts, and now or late in the several occupations of Millington Crew, Robert Clegg, Henry Wilde, William Copley, John Craven, Mrs. Hawshaw, Thomas Breasley, Smith and Watson, Messrs. Charlesworth, William Craven, and Michael Calvert.

Also, the BEDS of COAL and OTHER MINERALS under the old enclosed parts of the same, and other estates lately sold in the above Causes, all late the property in equal moleties of Shepley Watson, Esq., deceased, and Edward Hemingway, Esq., deceased. Printed particulars and conditions of sale, and plans of the estate, may be had (gratis) in London of Messrs. Perk Henrichta-street, Covent-garden; and in the country of Mr. Hortans, solicitor, Brierley, near Barnsley; Messrs. Nelson, Bollaker, and Nelson, solicitors, Iseds; Mr. JAHES BULKER, surveyor, York; Mr. Lancaszer, Barnsley, the succioneer; and at the place of sale.

Dated the 27th day of March, 1861.

CHAS. PUGH, Chief Cierky.

MR. JOHNSON WILL SELL, BY AUCTION, at the Wynnstay Arms Hotel, Wrexham, on Tuesday, the 7th day of May, 1861, at Four o'clock in the afternoon, subject to conditions to be their produced, all that MESSUAGE of TENEMENT with the OUTBUILDINGS, GARDEN, and SEVERAL PIECES or ARCELS of EXCELLENT ARABLE and PASTURE LAND thereunto belonging, containing in the whole 16 a. 2 n. 20 r. or thereabouts, be the same more or less, situate in he township of Cymman, in the parish of Hope, in the county of Flint, in the holding of Mr. Robert Jones, together with the very VALUABLE and recently tested SEAMS of COAL and IRONSTONE thereunder.

The SEAMS of COAL consist of Two Yard, the Crank, the Brassey, the Black Bed up the Main, all of which was marked to the same the results and the Main, all of which was emissively suitable for home and the Main, all of which was emissively suitable for home and the same a

hereunder. ist of Two Yard, the Crank, the Brassey, the Black Bed eminently suitable for house purposes and the manufacin, all of which are emin

nd the Main, all of which are eminently summer on most properly in situate in near proximity to the collieries in the Frood district, within units of the Wrexham and Mold turnpike-read, and distant from Wrexham five miles, dold seven miles, and Chester twelve miles, and adjoins the lands of W. Shipley Conway, Esq., Mrs. Warren, Ralph Leek, Esq., Mr. Smallwood, and Mr. Parry. The timber to be taken at a valuation, which will be produced at sale. The tenant will show the premises, and further particulars can be obtained from the auctioneer; Mr. John Perress, mine agent, Brymbo; and at the offices of Mr. Wyarz, collector, Wrexham, where a plan of the property may be seen.

PENHAUGER MINE, IN THE PARISH OF MENHENIOT, IN THE COUNTY OF CORNWALL.

MR. BAKER is instructed to SELL, BY PUBLIC AUCTION, on the mine, on Wednesday, the 15th inst., at Four o'clock in the afternoon, the MINE SETT and all the MATERIALS thereon, in One Lot, comprising—A STEAM ENGINE, 10 horse power, with 5 tons BOILER, and pitwork fixed in working order, 29 fms. under adit; horse whim, capstan and shears, smiths' beliows, smiths' tools, &c. Also, several tons of lead ore.

For particulars, apply to Mr. WK. KETLE, purser; Capt. KNAPP, manager; or to the auctioneer, Liskeard.—Wadeland, May 1, 1861.

CORNISH PUMPING ENGINES.

CORNISH PUMPING ENGINES.

MESSRS. FULLER AND HORSEY are instructed to SELL, BY PRIVATE CONTRACT, THREE GREAT CORNISH PUMPING ENGINES, made by Harvey and Co., the celebrated engineers, of Hayle, Cornwall, in 1864, and subsequently for the Old Wheal Vor Mine, situate about seven miles from the shipping port of Hayle. The diameters of the cylinders are 100 in., 85 in., and 89 in., with 11 ft. stroke, equal beam. The 100 in., cylinder makes on an average 53½ strokes per minute, the quantity of water raised by each stroke is 16,266 gallons, or nearly 70,000,000 gallons in the twelve hours. The 55 in. cylinder makes 6½ strokes per minute, and raises about 60,000,000 gallons. And the 80 in. cylinder engine, which has never been worked, may be calculated in proportion. Attached to this engine there are TWO STEAM BOILERS, weighing about 12 tons each, of unusual strength.—For further particulars, apply to Messrs. FULLER and HORSET, Billiter-street, London, E.C.

VALUABLE PATENT FOR THE PRODUCTION OF PARAFFINE OIL AND PARAFFINE FROM BOG HEAD OR OTHER COAL.

PARAFFINE FROM BOG HEAD OR OTHER COAL.

MESSRS. FULLER AND HORSEY are instructed to DISPOSE OF, BY PRIVATE TREATY, a VALUABLE PATENT for IMPROVEMENTS in DISTILLING PRODUCTS FROM COAL, by the application of superheated steam, by means of which the cost of production is much diminished, and the quantity produced largely increased. The process has been thoroughly practically tested; and by adopting the same in an establishment of works, at a moderate outlay of capital, the most profitable results cannot fail to be realized.—For further particulars, apply to Messrs. FULER and Horsey, Billiter-street, London, E.C.

OLFRAM FOR SALE.—About TWENTY TONS of this MINERAL are NOW READY for SAMPLING at EAST POOL MINE, near REDRUTH, CORNWALL. For Inspection or taking samples, application should be made to the agents on the mine. Tenders for the same, addressed to the committee of management at the mine, will be received up to the end of May proximo, when the party whose offer is approved will be duly advised thereof. The committee will not engage to accept the highest offer.—East Pool Mines, April 15, 1861.

GLAMORGANSHIRE.

CLAMORGANSHIRE.

COLLIERY.—TO BE SOLD, OR LET ON LEASE, the LIETTYMAUR COLLIERY, most advantageously situated, being only three miles from Neath, and immediately above the Vale of Neath Railway and Canal, both leading to Neath, Briton Ferry, and Swansea.

The coal is 3 ft. thick, free burning, and of very superior quality, suitable for household and all other purposes. It may be worked very cheaply, and with a small capital, as a short level with drain the whole field, and a short incline connect the mouth of the level with the above railway and canal; neither steam nor horses will, therefore, be required. Extent of coal field, about 40 acres.

Applications to be made to Mr. Lewis Griffithers, Ynis-y-Gerwn, Neath.

NEW COLLIERY, NAILSEA, NEAR BRISTOL.—
FOR SALE, BY PRIVATE CONTRACT, the WHOLE of the PLANT and
MATERIALS at the above colliery, comprising—
ONE HIGH PRESSURE DIRECT ACTING PUMPING ENGINE, cylinder 45 in.

ONE HIGH PRESSURE DIRECT ACTING PUMPING ENGINE, cylinder 45 in. diameter, and 10 ft. stroke.

ONE HIGH PRESSURE WINDING ENGINE and gear, cylinder 12 in. diameter. ONE HIGH PRESSURE WINDING ENGINE, cylinder 16 in. diameter. THREE CYLINDRICAL BOILER, 84 ft. by 6 ft.

ONE CYLINDRICAL BOILER, 18 ft. by 4 ft.

ONE CYLINDRICAL BOILER, 20 ft. by 3 ft. 6 in.

Hammered fron pumping cranks, 7 bobs, 19 in., 14½ in., 5½ in., 5 in., and 4½ in. forcing, lifting, and hand pumps; hammered iron straps, double straps and tall joints, buckets, clacks, wrought-iron cistern, lifting screws, chains, large capstan, double power crab winch, 80 fms. 10½ in. capstan rope, 8 in. capstan and other ropes, blocks, boring tools, wrought-iron air pipes, tram plates, smiths' bellows and tools, wagons, carts, &c.

To view, apply at the colliery; and for all further particulars to Boddan Castle, Esci. No. 29, Corn-street, Bristol.

ST. STEPHENS, NEAR ST. AUSTELL, CORNWALL.

TO BE SOLD, BY PRIVATE CONTRACT, WHEAL GRENVILLE IRON MINE, situate in the parish of St. Stephens, near St. Austell, held under a lease from Lady Grenville to Mr. Waiter James Paimer, for a term of 21 years, commencing April 18, 1860. Many thousands of tons of ore were raised and sold by the late Mr. Palmer, of Chevelah, near Turro, who died in January, 1859, since which the mine has been doing but very little. The quality of the ore is superior to that of most of the iron lodes in Cornwall, yielding a produce of nearly 60 per cent, of metal. After the charge for transit to the wharves (6s. 6d. per ton) and all other expenses are deducted from the price it will bring, a clear profit of several shillings per ton will be realised, and this profit will be considerably enchanced when the branch railway to connect the St. Stephens mine and clay-works with the Cornwall Railway is opened, a bill for the construction of which is now before Parliament, promoted by the honourable proprietress. This will effect a saving of Se. 6d. per ton, and, of course, add so much to the profit.

The lode is from 2 to 3 fms. in thickness, and may be wrought about 60 fms. below the surface by means of an adit, which may be driven on the lode from two valleys at the extremity of the sett, and meet in the centre, thus having high ground about half a mile in length to be taken away without any water charge.

The lesses wishes to dispose of the property for reasons which must be perfectly satis-

applicable.

The leasee wishes to dispose of the property for reasons which must be perfectly satisfactory to any one desirous of knowing them.

For viewing the mine, application may be made to Mr. Henny Truscovy, Cornish Arms Inn, St. Stephens; and to treat for the same apply to Mr. C. E. Webs, Chacewater, near Truro; or to Mr. E. Synons, surveyor, 11, Parade, Truro.

Dated Chacewater, Cornwall, April 10, 1861.

3

HEATLEY KIRK AND CO., GENERAL ENGINEERS, MACHINISTS, TOOL MAKERS, &c., of MANCHESTER, continue to SUP-PLY any class of MACHINERY for home and exportation, with the utmost facility. Of their catalogues are sent by post (free) on application.

WHEATLEY KIRK AND CO. CALL ESPECIAL ATTENTION to their STOCKS, TAPS, and DIES. WHITWORTH STANDARDS of various sizes in cases.—Manchester, April 25, 1861.

MPORTANT TO THE IRON TRADE.—By the AID of J. BROAD'S PATENT APPARATUS for ECONOMISING COAL and OTHER FUEL IN BLAST FURNACES, EVERY AVAILABLE PARTICLE of SMALL FUEL MAY BE SO USED as to be nearly equal in efficiency to large coal and coke.—17, Belgrave-terrace, Villa-road, Handsworth, near Birmingham.

TO IRONFOUNDERS.—J. IRELAND, FOUNDRY ENGINEER, begs to CALL the ATTENTION of IRONFOUNDERS to his PATENT UPPER TUVERE CUPOLA FURNACE, which EFFECTS a SAVING of from THIRTY to FIFTY PER CENT. in cokes, and melts the metal in much less time, without any additional labour or expense. Full particulars and testimonials can be had upon application at his office, 21, Moreton-atreet, Strangeways, Manchester.

FOR SALE, the BRYNGLAS SILVER-LEAD MINE.

FOR SALE, the BRYNGLAS SILVER-LEAD MINE, situate near Pouterwydd, and about three miles from the Devil's Bridge, and twelve miles from the port of Aberystwith, Cardiganshire.

The above mine has been worked by the present proprietors for nearly three years, and the machinery for pumping, crushing, and dressing the ore is of the very best description, and in perfect working order.

Upwards of £5000 has been expended in the erection of the machinery and the deve lopment of the mine. The shaft is sunk 26 fms. In the level in the bottom the lode is worth from 15 to 20 cwts. per fm. The lode in the 20 fm. level is also worth from 15 to 20 cwts. per fm. The lode in the company is moderate.—For further particulars, apply to the Secretary, at the offices, Claremont Hill, Shrewsbury.

For further particulars, apply to the Secretary, at the offices, Claremont Hill, Shrewsbury.

COPPER MINES IN NORWAY.—FOR SALE, the COPPER WORK and MINES Of AAMDAL and of HOIDESEID, UPPER THELE-MARKEN, NORWAY. The proprietor of the above establishments, not being possessed of the means necessary for properly developing the same, wishes to dispose of them to an individual or to parties willing to promote the formation of a company. There are nine mines belonging to the Aamdal work. The veins are quartz, purple copper and copper princes, and copper giance, containing 120 cas, of silver to the ton. There is abundant water-power, a new stamp work, with six wet and three dry stamps, an establishment for silver extraction, with steam-boliers, several furnaces, a saw-mill, a corn-mill, storehouse, overseers and workmen's houses, &c.

The Holdeseld property, 14 miles from Aamdal, consists of four mines, which contain argentiferous galena and copper. There is abundant water-power, water-wheel, fanner, several furnaces, and a dwelling-house,

The great want is a new road of about 15 miles, which would place the works within water communication of the shipping port of Skeen.

For further information, apply to the proprietor, KAMMERHERE SCHOYEN, Christiana; or to Mr. T. MACFARLANE, the late manager, Lorguenil, Canada; or to Lister and Biggs, 3, Laurence Pountney-hill, London.

3, Laurence Pountney-hill, London.

ARGE IRONWORKS AND COLLIERY ROYALITY FOR SAILE.—The EXTENSIVE IRONWORKS of VULCAN, on the right bank of the Rhline, in PRUSSIA, close to the mouth of the Dulsburg Canal and the mouth of the navigable River Ruhr, adjoining the great coal district of the Ruhr and Westphalia, and having connection by a branch rallway with the Cologne-Minden Rallway, and thereby with all parts of the Continent, are, in consequence of the dissolution of the company, to be PUBLICLY SOLD in the month of June next.

These works consist of FOUR LARGE BLAST FURNACES, with BLAST and OTHER ENGINES, COKE OVENS, machinery for loading and unloading materials from the Rhline and Daisburg Canal, FOUNDRY, MECHANICAL WORKSHOPS, with TOOLS and MACHINERY belonging thereto, and every convenience for the immediate resumption of work on a large scale.

In addition is a COLLIERY ROYALTY around the works, consisting of about 1500 English acres, with a pit partially a unk by an English contractor of eminence, and large PUMPING and DRAWING ENGINES, BOILERS, and necessary BULLDINGS, in and cold order and ready for immediate use, with many acres of land, sufficient for a pit-village and all other purposes.

PUMFING and DRAWING ENGINES, BOILERS, and necessary BUILDINGS, in fail order and ready for immediate use, with many acres of land, sufficient for a pit-village and ail other purposes.

The position of these extensive works, and their connection by the Rhine and railways with the ironstone mines belonging to the works on the Rhine (and which are to be sold with the works), together with the high protective duties which exist in Germany for iron, afford a peculiarly favourable opportunity for a practical British ironmaster to realise a good profit from their purchase and working.

Further details and information will be readily afforded on written or personal application to the chairman of the commission appointed for the liquidation of the affairs of the Vulcan Company, F. Hammacher, Doctor of Laws, Essen, Rhine Province, Prussia.

DERBYSHIRE.

DERBYSHIRE.

THE ALDERWASLEY FORGE AND WORKS, NEAR THE AMBERGATE STATION ON THE MIDLAND RAILWAY.—TO BE LET, on a lease for 7, 14, or 21 years, and may be entered upon immediately, the above-mentioned FORGE and WORKS, with the STORE ROOMS, OFFICES and BUILDINGS, ROLLING and SLITTING MILLS, on the bauks of the River Derwent, in the liberty of Alderwasley, and the WATER-WHEELS of 70 horse power and MACHINERY be longing thereto, late in the occupation of Messrs. Mold, who for nearly 50 years carried on a lucrative and extensive business as frommasters at the said works, together with a newly-created MESSUAGE, or DWELLING HOUSE, very pleasantly situated near the said works, with the green-house, stables, coach-house, and capital garden belonging thereto, and upwards of 30 acres of excellent land, and 15 workmen's houses and counting-house, near or contiguous to the works.

The works are situated within half a mile of the Ambergate station on the Midland Railway, and the Cromford and Belper turnpike-road, the branch railway from Ambergate to Rowsley (on which there is a siding and wharf for the use of the works), are all parallel therewith and immediately contiguous thereto, and afford excellent railway and canal transit to and from London, Leeds, Nottingham, Derby, and all parts of the kingives a direct communication with Manchester, Liverpool, &c.

The works are also available for saw-mills on an extensive scale, or for any other purpose requiring power and facility of transit.

For further particulars, and to treat, application may be made to Messrs. Woodhouse and Sepecox, civil and mining engineers, Derby; or at the offices of Messrs. Newbold and Son, solicitors, Matlock, from whom tickets may be obtained to inspect the works.

TO CAPITALISTS AND OTHERS.—TO BE LET OR SOLD, the very VALUABLE MINES of COAL and IRONSTONE under about 80 acres of surface, situate at Oldbury, near Birmingham, on the Stour Valley Rallway, known as the BLAKELEY HALL ESTATE. This property contains the celebrated Thick, or Ten Yard Coal. The mines are now being worked in adjacent properties.—Any further particulars may be obtained on application to Messrs. Incompros, Lea, and Kirnst, solicitors, Coventry; or Messrs. Woodhouse and Jeffcock, civil and mining engineers, Derby.

CARNARVONSHIRE.

MPORTANT TO CAPITALISTS—VALUABLE SLATE AND SLAB VEIN FOR SALE.—TO BE DISPOSED OF, BY PRIVATE CONTRACT, an EXTENSIVE SLATE and SLAB VEIN, most advantageously situated within half a mile from the proposed rallway terminus at Bettws-y-Coed.—Plans, particulars, and reports may be had at the Mining Journal office, 26, Fleet-street, London, E.C.; and of Mr. W. Dzw, Bangor, North Wales. TO COAL AND IRONMASTERS, AND OTHER CAPITALISTS

TO COAL AND IRONMASTERS, AND OTHER CAPITALISTS.

CHARITY COLLIERY, BEDWORTH, WARWICKSHIRE.—

TO BE LET, and entered upon immediately, the whole of the VALUABLE, MINES of COAL, IRONSTONE, LIMESTONE, and CLAY, now in full work, at the above colliery, together with the substantial farm-house and all necessary outbuildings, and about 50 acres of first-rate arable, meadow, and pasture land, being the estate in which the above-mentioned mines are situated.

The tenant will be expected to take to the engines, rallways, skips, and other moveables plant now in work at the said colliery, and also to the farm implements, stock, and other moveables on the said farm, at a valuation to be made in the usual way, by parties to be respectively chosen by the landiord and tenant.

The above establishment is well worthy the attention of capitalists desirous of embarking in mining speculations, as a large area of coal is already opened out, and the present plant may be extended by a moderate outlay through the shafts already sunk, to win the remaining portion of coal, which consists of upwards of 70 acres of fully 20 ft. thick of marketable coal.

This collery is situate at Bedworth, in the county of Warwick, in the middle of a po-

win the remaining portion of coal, which consists of upwards of 70 acres of fully 20 ft. thick of marketable coal.

This colliery is situate at Bedworth, in the county of Warwick, in the middle of a populous neighbourhood, being distant from Coventry only five miles, from Nuneaton three, and from Atherstone seven. The Coventry Canal passes through the colliery, as also does the Covenity and Nuneaton branch of the London and North-Western Railway, affording a chesp outlet for the products of these mines to all parts of the kingdom.

The coal is of a superior quality, and much sought after as fuel for furnaces, brick-yards, and locomotive engines on railways, as well as for general domestic purposes.

The ironstone is of a very rich quality, yielding a large percentage of good malleable troe, and is exported in large quantities from the works to the smelting furnaces in South and North Staffordshire, where it is found to combine with advantage with the other ironstones which are smelted at those works.

For a view of the colliery, apply to Mr. J. P. Evans, of Griff, near Nuneaton, the balliff to the Governors of Bedworth Hospital (who are the proprietors of the colliery), at whose office can be seen plans of the colliery and estate; and for any further particulars apply to Messrs. Woodhouse and Jarrocck, mining engineers, Derby, and to me at my office, in Balley-lane, Coventry.

CHARLES WOODDOCK, Clerk to the Governors of Mr. Nicholas Coveniry, April 26, 1861. Chamberlain's Charity, in Bedworth.

VALUABLE COAL MINES IN YORKSHIRE.—TO BE LET. for such a term of years as may be agreed upon, the VALUABLE COAL MINES or 400 acres of the LEDSTONE ESTATE, near FONTEFRACT, on the north side he River Airs, opposite Castleford, and within 10 miles of the populous and flourishing no Leeds.

town of Leeds.

The River Aire runs from Leeds to Goole and Selby, along the south side of the property, so that a railway from the colliery to the river would pass over the estate free of any wayleave charge, and thus afford a very easy and cheap transit for the coals.

A bore-hole has been put down on the property, and two seams of coal proved, one at about 30 fms. from the surface, and the other at 69 fms., the latter being 5 ft. 11 in. in thickness. Other seams are known to exist, having been worked at collieries a little to 10101

he west of this property.

For further particulars, apply to Mr. Thomas E. Forster, 7, Ellison-place, Newcastle.

LARGE AND POWERFUL PUMPING ENGINE FOR SALE.—A 70 in. cylinder THREE VALVE PUMPING ENGINE FOR with THREE BOILERS and all fittings complete. The engine was built by the Butterle Company, is in excellent working condition, and can be easily removed, the Middan Railway running close by, and there is a siding up to the engine.—For further part culars, application to be made to Messrs. Woodhouse and Jeffock, Derby; or to viet the engine to Mr. C. 3. Severe (144). culars, application to be made to Messrs. Woodhouse and Jerr the engine, to Mr. C. T. S. Shiffl, Cinder Hill, near Nottingha

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BEDFORD IBONWORKS, TAVISTOCK.

NICHOLLS, WILLIAMS, AND CO. have generally a GOOD STOCK of SECOND-HAND MINING MATERIALS FOR SALE, including ironwork for a water-wheel, 40 ft. diameter, 2½ ft. breast. They also MANUFACTURE STEAM ENGINES of every description on the newest principle. Castings and wrought-iron work made at the shortest notice: Machinery sent to all parts of the world. Steam boilers and chains warranted of the best description.

PATENT BITUMINIZED GAS, WATER, AND DRAINAGE PIPES.—These PIPES POSSESS all the PROPERTIES NECESSARY for the CONVEYANCE of GAS and WATER, and also for DRAINAGE PURPOSES.—viz., GREAT STRENGTH, GREAT DURABILITY, and PERFECT ISOXIDABILITY, and being non-conductors are not affected by frost, like metal pipes. They are proved to resist a pressure of 220 lbs. on the square inch (equal to 500 it. head of water), are only one-fourth the weight, and considerably cheaper than iron pipes. They are made in 7 ft. lengths, and the joinings are simple and inexpensive. These pipes have been in use in France, Spain, and Italy nearly three years, where the demand for them is very great. The opinions of the press on a public test at the Houses of Parliament, before a large number of engineers and other scientific gentlemen, may be had, with further particulars, at the office of the company, on application to Mr. Alex. Young, 67, Mark-lang London, where sample pipes may be obtained for trial.

PATENT LEVER BREAK, FOR RAILWAY WAGONS, doing away with the objectionable break rack. Can be APPLIED to EXISTING STOCK at a TRIFLING EXPENSE. Royalty moderate. Models can be seen at 34, Great George-street, Westminster; and the breaks in action at the works of the Railway Carriage Company; at the Peterboro' Station, on the Eastern Counties Railway; the Rugby Station, London and North-Western Railway; the Cardiff Docks Station, Tasf Vale Kailway; and at the Works, Oldbury, near Birmingham, where all communications are requested to be sent.

NCRUSTATION OF STEAM BOILERS.—EASTON'S PATENT BOILER FLUID EFFECTUALLY REMOVES and PREVENTS INCRUSTATION IN STEAM BOILERS, WITHOUT INJURY to the METAL, with GREAT SAVING in FUEL, and with LESS LIABILITY to ACCIDENT from EXPLOSION. It is used by Her Majesty's Steam Storeships, Woolw in Arsenal, Honourable Corporation of Tribity House, Tower of London, by the principal Steam Packet Companies of London, Liverpool, Southampton, Hull, &c., and by engineers and manufacturers, with full particulars, will be forwarded on application to P. S. Easton and G. Sprinsomer, and manufacturers and patentees, Nos. 37, 38, and 39, Wapping-wall, London, E.
ACERTS:—Liverpool, Mr. J. McInnes; Hull, Messrs. A. H. Fleming and Co.; Southampton, Mr. J. Clark; Birmingham, Mr. Adam Dixon; Belfast, Mr. W. T. Matier, C.E.; Nottingham, Mr. G. D. Hughes; Glasgow, Mr. W. Mutrie.—Foreign: Rio de Janeiro, Messrs. Miers Brothers and Maylor; Odessa and South Russia, Mr. W. Baxter; Hamburg, M. August Möller.
Mr. Easton has rendered steam navigation a decided service. If his fluid only effects a part of what is said in his testimonials, then it is worth a trial by every steamship owner in the world.—Mitchell's Steam Shipping Journal, Dec. 22, 1860.
Messrs. Easton and Springfield have patented and are now manufacturing a fluid which, although it has been subjected to the sworest tests, appears to give universal satisfaction.—Mining Journal, Dec. 22, 1860.
The most effectual, economical, and simple preventive of incrustation known.—Commercial Daily List. INCRUSTATION OF STEAM BOILERS.—EASTON'S

A YTOUN'S PATENT SAFETY CAGE FOR MINES.—

An illustrated description of this cage appeared in the Mining Journal of the 27th April. The patentee would impress on the working miners that it depends upon themselves alone whother they are to have the security of safety cages or not. Employers are naturally unwilling to incur this responsibility, but will gladly accede to the expressed wishes of their workmen in a matter so materially affecting their safety. Let the latter, herefore, with the concurrence of their employers, call upon the different patentees to exhibit their safety cages before them, make choice of the one they have confidence in, and thus do away with a fruitful source of danger to the miner.

N.B.—If requested to do so, the patentee will send a safety cage, with its guide-rods and frame complete, to any mining district, at his own expense, for the purpose of its being tried and tested. He has no doubt that the other patentees will do the same.

Apply to the patentee, Robert Aytoun, 3, Fettes-row, Edinburgh.

B ASTIER'S PATENT CHAIN PUMP,
APPARATUS FOR RAISING WATER ECONOMICALLY, ESPECIALLY
APPLICABLE TO ALL KINDS OF MINES, DRAINAGE, WELLS, &c.
J. U. BASTIER begs to call the attention of proprietors of mines, engineers, architects, farmers, and the public in general, to his new pump, the cheapest and most efficient ever introduced to public notice. The principle of this new pump is simple and effective, and its action is so arranged that accidental breakage is impossible. It occupies less space than any other kind of pump in use, does not interfers with the working of the shafts, and unites lightness with a degree of durability almost imperishable. By means of this hydraulic machine water can be raised economically from wells of any depth; it can be worked either by steam-engine or any other motive power, by quick or slow motion The following statement presents some of the results obtained by this hydraulic machine as daily demonstrated by use:—

1.—It utilizes from 90 to 92 per cent. of the motive power.

as daily demonstrated by use:—

1.—It utilises from 90 to 92 per cent. of the motive power.

2.—Its price and expense of installation is 75 per cent. less than the usual pumps employed for mining purposes.

3.—It occupies a very small space.

4.—It raises water from any depth with the same facility and economy.

5.—It raises with the water, and without the slightest injury to the apparatus sand mud, wood, stone, and every object of a smaller diameter than its tube.

6.—It is easily removed, and requires no cleaning or attention.

To be seen daily at W. P. Warner's, who and spirit merchant, Welsh Harp, Edgware road, near Cricklewood. References of the highest character will be given.

road, near Unickiewood. References of the nignest character will be given.

J. U. Baytier, sole manufacturer, will CONTRACT to ERECT his PATENT PUMP
at HIS OWN EXPENSE, and will GUARANTEE IT FOR ONE YEAR, or will
GRANT LICENSES to manufacturers, intuing proprietors and others, for the USP
of his INVENTION.
OFFICES, 19, MANCHESTER BUILDINGS, WESTMINSTER, LONDON,
London, Oct. 10, 1859. Hours, from Ten till Four. J. U. BASTIER, C.E.

SAMUEL GRIFFITHS' STAFFORDSHIRE IRON TRADE
CIRCULAR. Published every Saturday afternoon. Circulation, 7000 per week.
Price & I is, per annum, in advance, post free, being registered for transmission abroad at some price.

Price £1 Is, per annum, in advance, post free, being registered for transmission abroad at same price.

The Ron Circular gives the state of the Market with respect to Pig and Malleable Iron; the Official Prices of Bars, Hoops, Sheets, and most other kinds of Staffordshire Iron; a Report of the Iron Trade throughout England, Scotland, and Wales; the Scotch Pig Market up to the close of the market on the day of publication; the Closing Price of the Funds and the principal Railway Stocks up to two o'clock the same day; a Monthly Report of the Honey Market, London Discount Market, state of the Foreign Exchanges; the Weekly Return of the Bank of England; the Monthly Return of the Bank of Fance; a correct Weekly Account of all the Gold Ships at Sea, London bound; likewise an accurate Weekly Return of all the Gold and Specie received during the week; a Report of the Copper Market, with prices of all kinds; a Report of the Tim Market, with present prices, and the same of Lead and Specier, every week. The Ino Cincular likewise contains an account of all Failures, Dissolutions of Fartnerships, Changes in Firms, Stoppage of Works, Works, Recommencing, New Works, or those in course of erection; in a word, the Cincular Rivers well-known connection with it, considers would be useful and acceptable to the Ironmater, the Merchant, the Shipper, Banker, or any other Buyer of Iron. The same may be said with regard to Copper, Tin, Spelter, and Lead. A Tabular Statement will be published with the Cincular every three months, showing the number of Furances in and out of blast in all the Iron Districts, the quantity of Iron made, and likewise the quantities of Coal and Ironstone consumed in its production.

Parties wishing to subscribe will send a post-office order, addressed to S. Gartzyttms, Motal Broker, Wolverhampton, which will include the cost post free to end of this year.

NVESTMENTS IN BRITISH MINES.—
MR. MURCHISON publishes a QUARTERLY REVIEW OF BRITISH MINING, giving at the same time the FOSITION and PROSPECTS of the MINES at the end of each Quarter, the DIVIDENDS PAID, &c.; price one shilling. RELIABLE INFOR. MATION and ADVICE will at any time be given by Mr. MURCHISON, either personally or by letter, at his Offices, No. 117, BISHOPSGATE-STREET WITHIN, LONDON, where copies of the above publication can be obtained.

ally of by letter, at his Offices, No. 117, BISHOPSGATE-STREET WITHIN, LONDON, where copies of the above publication can be obtained.

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The book will be found extremely valuable.—Observer.

A valuable guide to investors.—Herapath.

Mr. Murchison takes sound views upon the important subject of his book, and has placed, for a small sum, within the reach of all persons contemplating making investments in mining shares that information which should prevent rash speculation and unproductive outlay of capital in mines.—Morning Herald.

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Circumference and breaking strain.

24 25 3 34 4 44 103 tons 12 tons 20 tons 27 tons 29 tons 3234 tons 45½ tons M.B.—The 2½, 3, and 4 in. ropes were the sizes actually tested. The remaining sizes and strains are comparative.

Size. Inches.	Hutchings and Co.'s wire- rope for ships' rigging. Tested Feb. 27, 1861.	Newall and Co.'s Test of Oct. 29, 1860.	Garnock, Bibby, and Co.'s Test, Oct. 29, 1860.
2 21/4 31/4 31/4 31/4 4 4 4 4 4 4 4	5 tons 15 cwts, 11 " 14 " 16 " 10 " 22 " 8 " 23 " 10 " 29 " 10 " 37 " 15 "	7 tons 15 cwts.	8 tons 16 cwts. 18 ,, 5 ,, 26 ,, 10 ,,

N.B.—The 2, 3%, and 4 in. ropes were the actual sizes tested. The remaining sizes and strains are comparative. The above tests certified by Mr. M'Donald the Superintendent of the Corporation testing Works, Liverpool.

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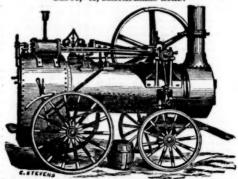
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